Omnicell/OptiFlex Card Reader Installation and Configuration Guide

67-2006 Rev G

Includes Magnetic and Bar Code Card Readers

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Hardware Installation

Procedure Overview

When Omnicell cabinets (with Color Touch or OptiFlex software) are ordered with a magnetic stripe or bar code card reader, they are shipped with the feature installed from manufacturing. Most cabinets (except for the Anesthesia Workstation) can also be retrofitted with the card reader at the customer facility.

The card reader housing has a place for a finger sensor. If ordered with a fingerprint scanner, the applicable scanner mechanism is installed in manufacturing. If the cabinet has an existing fingerprint scanner, it can be retrofitted with a housing containing a card reader and a fingerprint scanner.

Note: This document only covers the retrofit of either card reader (magnetic stripe or bar code) by itself. If retrofitting a card reader with a fingerprint scanner, refer to document #60-3011, *Touch & Go Fingerprint Scanner Installation and Configuration Guide*.

This chapter provides installation procedures that can be performed by a qualified Omnicell representative. The procedures are for the following cabinet types:

- OmniRx/OmniTT/Half-Cell/Anesthesia TT
- Color Touch / OptiFlex Cabinets
  - OptiFlex only supports the mag card reader. It does not support the fingerprint scanner or the bar code reader.
- Anesthesia Work Station (AWS)
  - Card reader retrofits for AWS are not currently supported. However, the housing assembly may be replaced as needed.

These procedures are based on installation to the following sleds by cabinet type:

- Sure-Med; US Logic motherboard
- Omnicell/OptiFlex; ETX motherboard

Perform any necessary sled upgrades prior to installing the card reader.

Retrofit Instructions

This section lists the required kit by reader type. The retrofit instructions are organized by cabinet type. The instructions are the same for either card reader. Each sub-section specifies the tool needed for the specific cabinet type retrofit. Refer to "Kit Listing" on page A-4 for kit list details.

Minimum Requirements

The following minimum hardware and software requirements are for OmniSupplier cabinets:

- Cabinet must be an OmniSupplier Color Touch

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- Color Touch software version JT5.4.3.2, or higher
- OmniCenter software version 7.0.3.1, or higher

  If the Card Only Positive ID option is not required, the minimum software requirements are:

  - Color Touch JT5.3.2.2
  - OmniCenter 6.0.5.3

OptiFlex cabinets require 8.0 software or higher.

Required Kits

Although there is more than one type of card reader, the card reader kits looks similar. The components in the housing are different and have different kit numbers. If the card reader fails, the components are not serviced—rather the whole housing is replaced. Only kits #14-1199 and 14-1209 are OptiFlex compatible.

Cabinet Type	Kit #	Kit Description
1-2-3-Cell Cabinets Blue Supply	14-1117	Bar Code Reader BRC 100 .400, keyboard wedge
	14-1202	Bar Code Reader, serial
	14-1109	Mag Card Reader, MCR100
1-2-3-Cell Cabinets Blue Printer	14-7011	Bar Code Reader BRC 100 .400, keyboard wedge
	14-1203	Bar Code Reader, serial
	14-7005	Mag Card Reader, MCR100
1-2-3-Cell Cabinets (CT/OptiFlex)	14-1200	Bar Code Reader, serial, 490
	14-1230	Bar Code Reader, serial, 400
	14-1199	Mag Card Reader, 3-Trk [OptiFlex compatible]
	14-1209	Mag Card Reader, 75bpi, 1-Trk [OptiFlex compatible]
Sleds (Blue Screen/CT) Pharmacy	14-1140	Bar Code Reader BRC 100 .400, keyboard wedge
	14-1206	Bar Code Reader, serial
	14-1139	Mag Card Reader, MCR100
Sleds (Blue Screen/CT) Supply	14-1142	Bar Code Reader BRC 100 .400, keyboard wedge
	14-1207	Bar Code Reader, serial
	14-1141	Mag Card Reader, MCR100
	14-1146	Mini Mag Card Reader
Anesthesia Workstation	14-1215	Bar Code Reader, serial, 490
	14-1231	Bar Code Reader, serial, 400
	14-1214	Mag Card Reader, 3-Trk
	14-1213	Mag Card Reader, 75bpi, 1-Trk
Combination	12-6007	Mag Card Reader Keyboard Input
	14-8016	Serial Bar Code Wedge Conversion

Table 1-1. Card reader retrofit kit matrix

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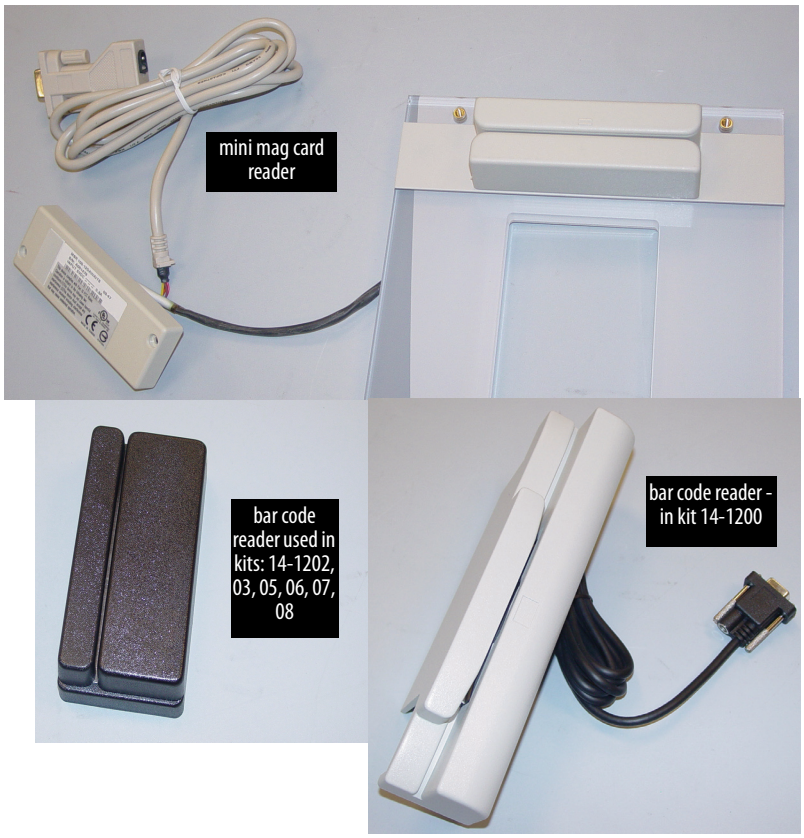

Figure 1-1. Card Reader

OmniRx/OmniTT/Half Cell/Anesthesia TT

Tools Required

- T-10 Torx Driver
- ESD Wrist Strap
- E-Ring Installation Tool (recommended - not in kit)
- Scribe (or screw driver)

Preparing the Cabinet

1. Perform a graceful shutdown of the cabinet software, then power down the cabinet and disconnect power cord.

Caution: Put on a grounded ESD wristband before working on the electronic sled.

2. Access the electronics sled.

3. Disconnect the following cables:
   - Display and touch screen cables
   - Keyboard cable
   - Speaker cable
   - Printer cable
   - Cabinet power/comm ribbon cable
   - Fan cable (if applicable)
4. Remove the cabinet lid and transfer it to a clean, stable work space with the top-side down.

Removing the Printer

1. Remove the printer paper.
2. Use a scribe to rotate the e-ring on either side of the printer lid, so that the opening is in the front. See close-up for relative position to brass pivot. Right side e-ring not shown.

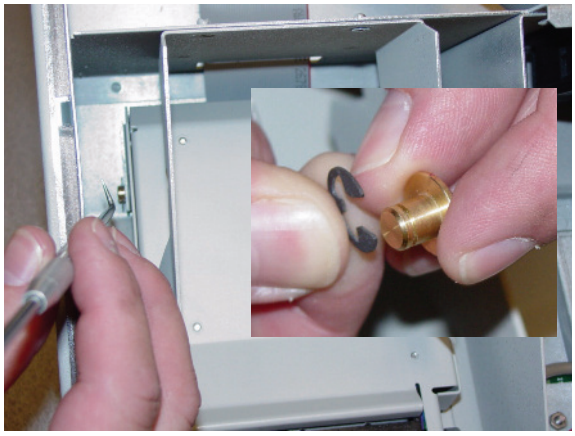

Figure 1-2. Rotating the E-rings

3. Push the e-ring off of the brass pivot on either side of the printer lid. The optional e-ring installation tool may be used for this step.

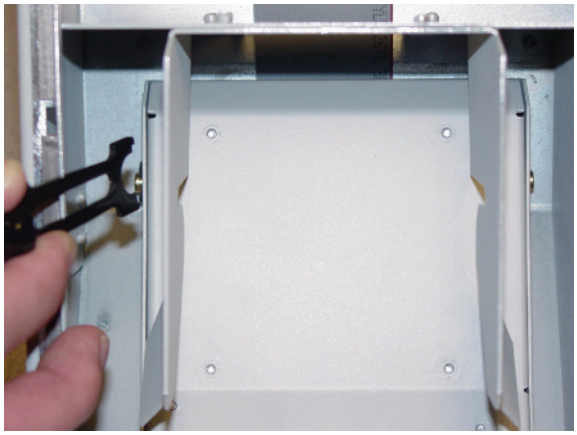

Figure 1-3. Removing the E-rings

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4. Push in the two brass pivots until no longer visible.

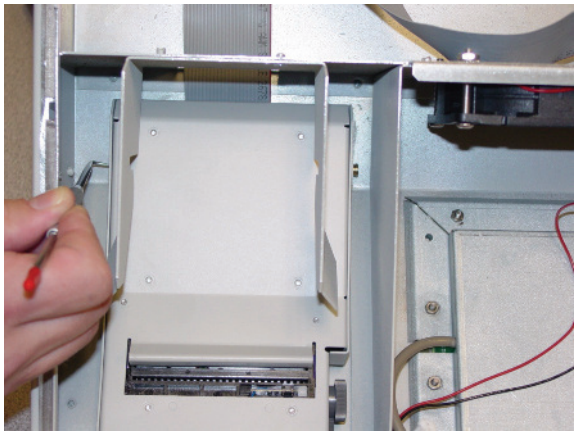

Figure 1-4. Pushing in the brass pivots

5. Lift the cabinet lid slightly, then rotate the printer lid to the open position
6. Remove the brass pivots, and set aside.

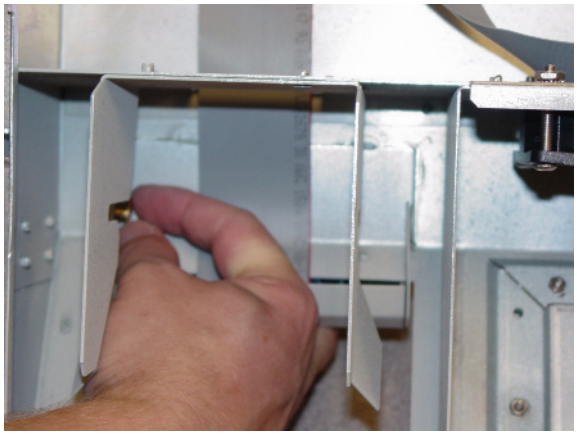

Figure 1-5. Removing the brass pivots

7. Free the printer cable from any clips.

8. Slide the printer out and remove from the cabinet lid.

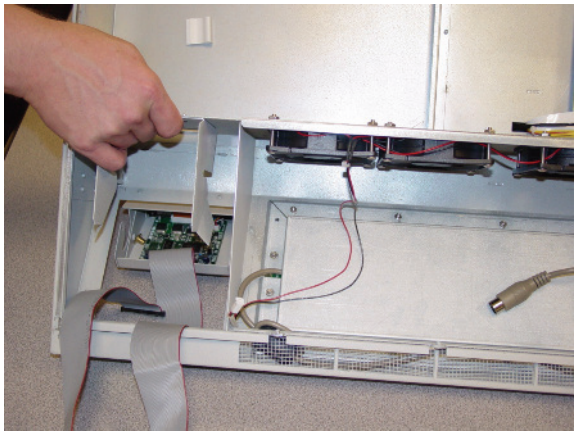

Figure 1-6. Removing the printer

Installing the Card Reader

1. Use the T-10 Torx driver to remove the four 6-32 flat head screws securing the printer lid (two on either side of the printer assembly).

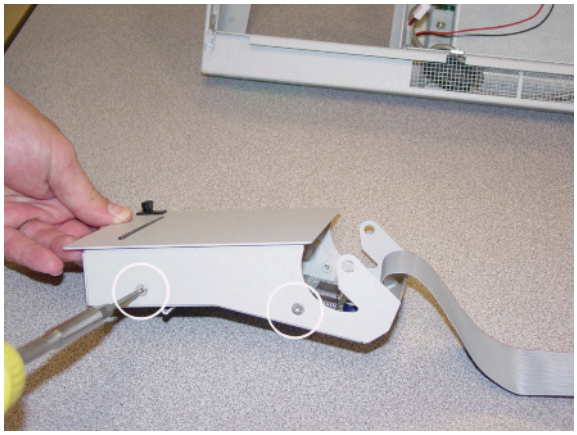

Figure 1-7. Removing the printer lid

2. Separate the lid from the printer assembly and discard the lid.

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3. Install the card reader to the printer assembly (mounting replaces printer lid), using the four screws removed in Step 1.

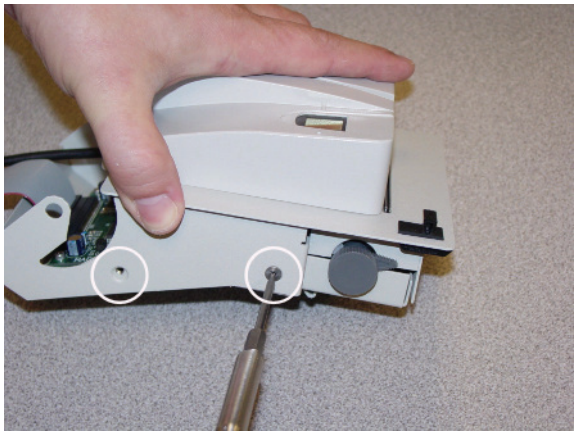

Figure 1-8. Assembling the card reader to the printer

4. Thread the printer cables through the cabinet lid, (from outside, in) and behind the console printer housing.

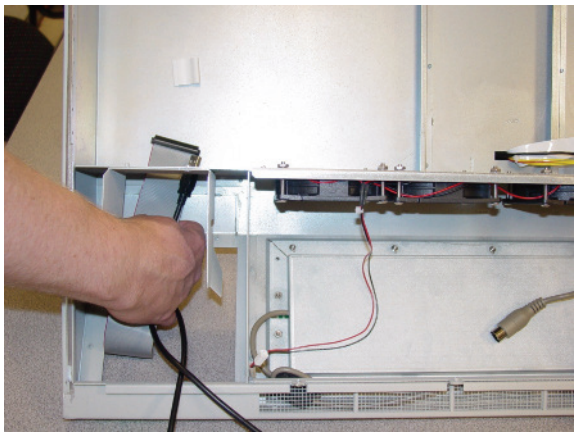

Figure 1-9. Routing the cables

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5. Install the printer/card reader assembly to the cabinet lid, aligning it with the slots in the printer bracket, as shown.

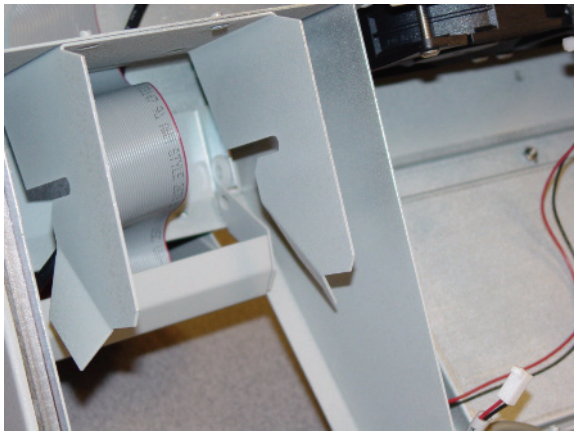

Figure 1-10. Re-installing the printer assembly with the Touch & Go device

6. Insert the two brass pivots removed earlier.

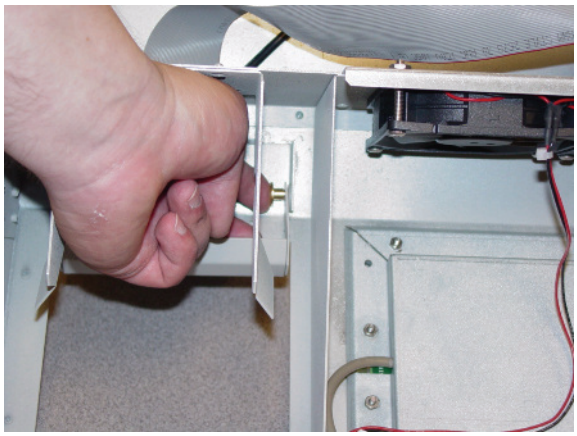

Figure 1-11. Installing the brass pivots

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7. Secure each brass pivot with an e-ring, using the e-ring installation tool as shown.- Position the e-ring with the opening facing the cabinet lid (opposite of removal procedure). See close-up for relative position to brass pivot.

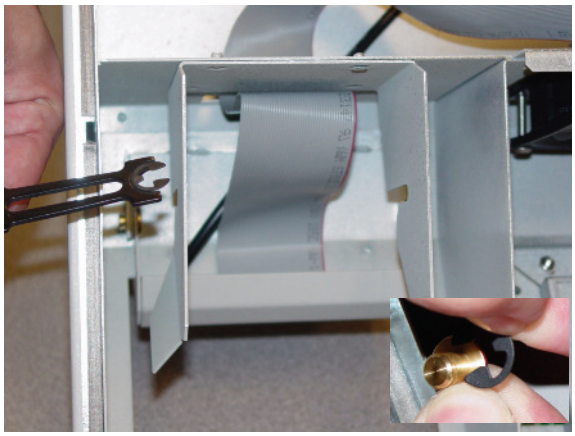

Figure 1-12. Installing the E-rings

8. Secure the printer cable into available clip(s) on the cabinet lid.
9. Replace the cabinet lid and reconnect the cables.

Note: For detailed cable placement instructions, see the Color Touch ETX Electronics Tray Installation Instructions (Doc P/N #60-8019).

10. Connect card reader serial cable to J47 on the ETX motherboard.

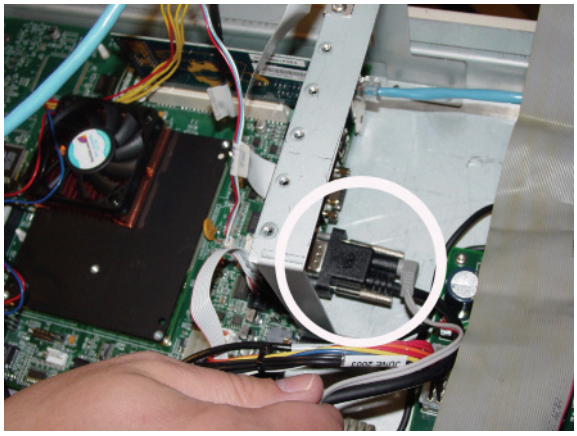

Figure 1-13. Connecting the serial cable

11. Connect card reader power cable to the back of the card reader serial connector.

12. Insert card reader power cable pins into the disk drive power connector. Align the red-stripe pin to the red cable and the gray-stripe pin to the next spot.

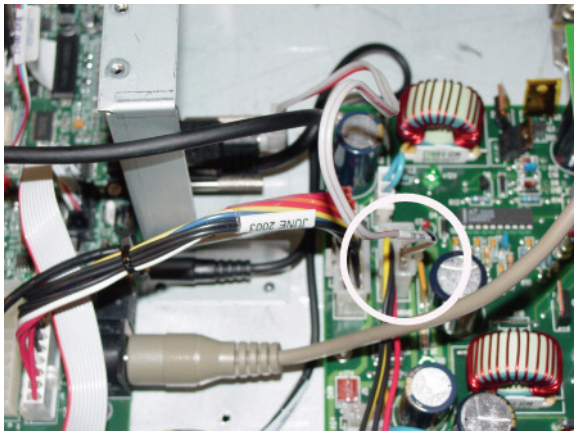

Figure 1-14. Connecting the power cable pins

Note: For connecting power cable to SATA drives, see "Sleds with SATA Drive" on page 1-18.

13. Remove the ESD wristband.

Final Procedures

1. Secure the electronics sled.
2. Connect the power, turn on the cabinet, and reboot the cabinet software.
3. Log into the cabinet (as Omnitech or other authorized User Type).
4. Proceed to "Software Configuration" on page 2-1.

ColorTouch / OptiFlex Tall Cabinets

The cabinet hardware is the same for Color Touch and OptiFlex. The difference is the software and user interface. There is also a difference in configuring/activating the card reader. For Color Touch cabinets, see "Color Touch" on page 2-1. For OptiFlex cabinets, see "OptiFlex" on page 2-7.

Tools Required

- T-10 Torx Driver
- ESD Wrist Strap

Preparing the Cabinet

1. Perform a graceful shutdown of the cabinet software, then power down the cabinet and disconnect power cord.
2. Slide the PC box forward and remove the lid.

Caution: Put on a grounded ESD wristband before working on the PC box.

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Removing PC Box Bezel

1. If a card reader is currently installed, disconnect the card reader serial and power cable.
2. Use a T-10 Torx driver to remove the four screws that secure the existing PC box bezel. Remove the bezel and discard it.

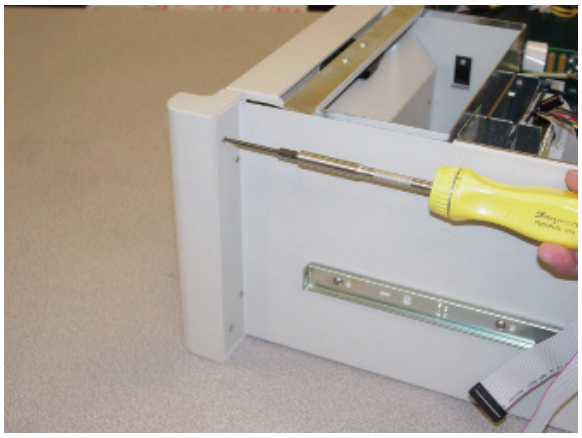

Figure 1-15. Removing the PC box bezel

Installing the Card Reader

1. Align the new bezel with the car reader, then secure it to the PC box using the four screws previously removed.

Figure 1-16. Installing new bezel

2. Route the card reader cable between the PC box sidewall and printer housing.
3. Route the cable(s) neatly in the PC box using the cable ties/kurly locks provided in the kit as needed.

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4. Connect the card reader power cable provided in the kit to the PC box power supply cable.

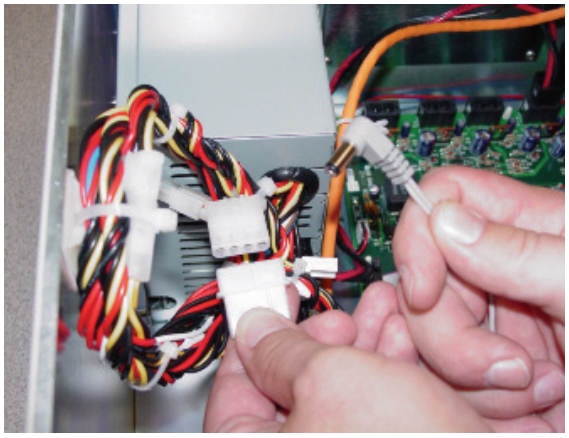

Figure 1-17. Connecting the power cable

5. Connect the card reader serial cable to the serial port.
6. Connect the power cable to the back of the serial cable connector.

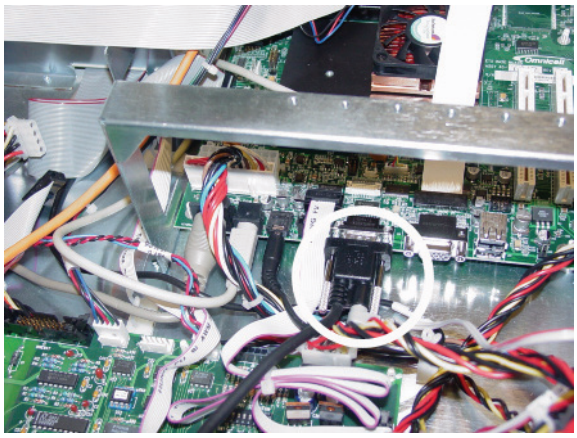

Figure 1-18. Connecting the serial cable

7. Remove the ESD wristband.

Final Procedures

1. Close the PC box lid and slide the PC box back into the cabinet.
2. Connect the power, turn on the cabinet, and reboot the cabinet software.
3. Log into the cabinet (as Omnitech or other authorized User Type).
4. Proceed to "Software Configuration" on page 2-1.

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Anesthesia Workstation (AWS)

The card reader is attached to the side of the AWS keyboard. The cables get routed through the keyboard bracket cutout and LCD bezel into the electronic sled.

Note: if replacing like assemblies, testing the new unit with the existing cables may save time, prior to removing the LCD bezel and replacing the cables.

Tools Required

- T-10 Torx Driver
- ESD Wrist Strap

Preparing the Cabinet

1. Login to the **Administration** menu.
2. Press the **Exit To Shell** button.
3. Press **OK** on the confirmation window.
4. Press the **Shutdown On Exit** radio button in the Exit the Shell section.
5. Press the **Exit The Shell** button.

Note: Wait for the screen to display: "It is now safe to turn off this OmniCT."

6. Switch the power off in the back of the station.
7. Remove the 16 LCD bezel cover screws using a T-10 Torx driver.

Figure 1-19. Removing the LCD bezel

8. Unlock, then lift the sled top and pull it forward. Lift it up and set it aside.

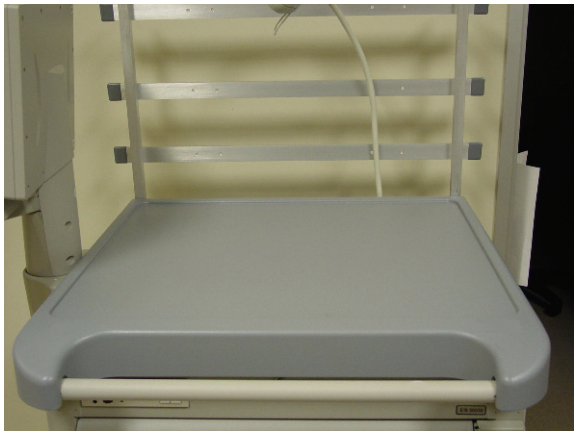

Figure 1-20. Accessing the electronic sled

9. Remove the 3 screws that attach the reader bracket to the keyboard-LCD bracket.

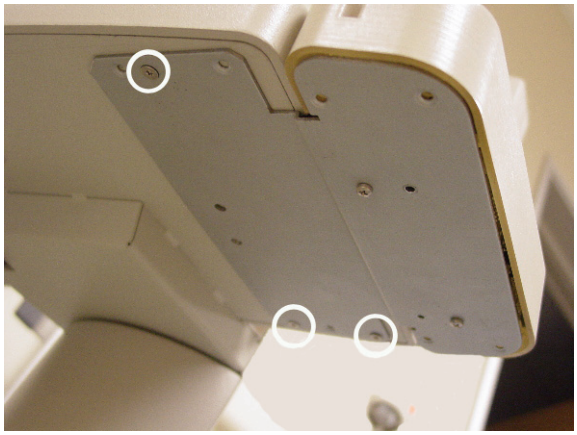

Figure 1-21. Removing the current reader, if present

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10. Remove the 5 remaining screws from the keyboard-LCD bracket. If there is no reader bracket, all 8 screws need to be removed.

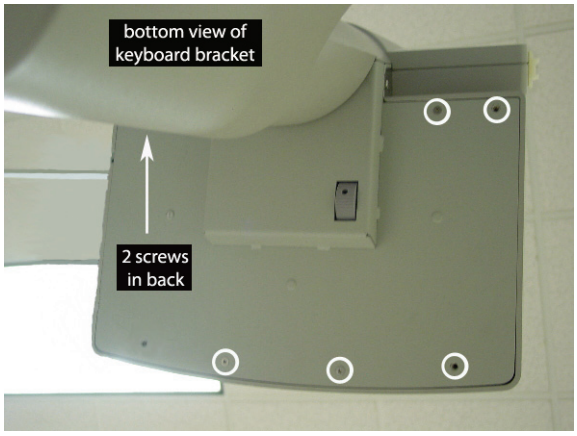

Figure 1-22. Accessing the keyboard assembly

Caution: Put on a grounded ESD wristband before working on the electronic sled.

Installing the Card Reader

1. Disconnect the cable(s) inside the electronic sled, remove the cable(s), and set the old assembly aside.

Note: If the existing keyboard bezel is in good shape, skip to Step 4.

2. Remove the eight keyboard base (84 key to bezel bracket) screws to take off the existing keyboard bezel.
3. Secure the keyboard base to a new keyboard bezel.

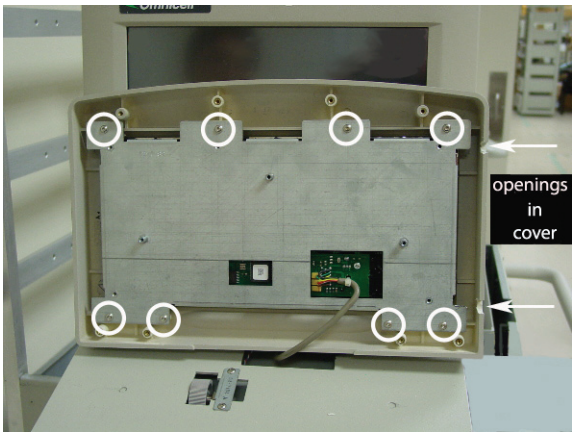

Figure 1-23. Securing the new keyboard bezel

4. Remove the 4 corner reader bracket screws to take off the new reader bezel.

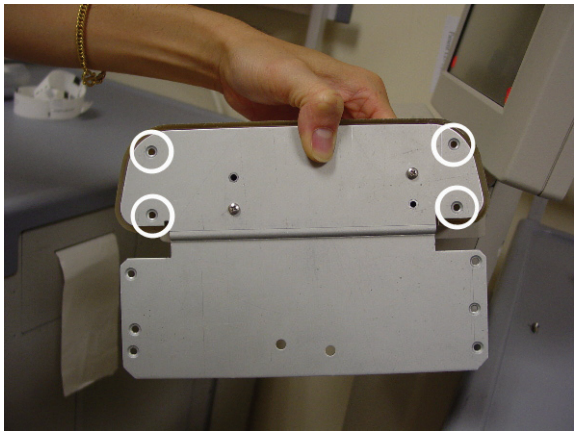

Figure 1-24. Accessing the reader assembly

5. Route the mag card reader or bar code scanner cable from the reader assembly through the keyboard bracket cutout and LCD bezel into the electronic sled.

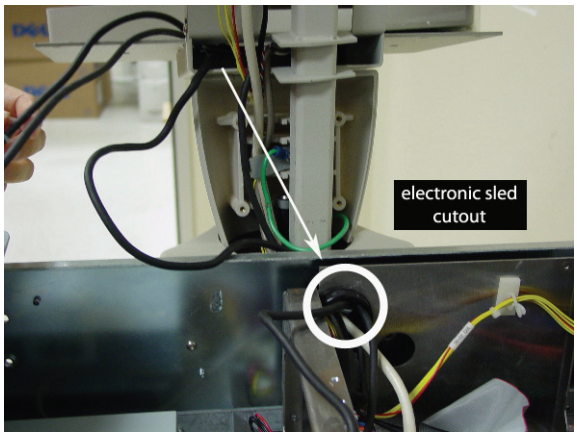

Figure 1-25. Routing cables through bezel into electronic sled

6. Secure the reader bezel to the reader bracket.
7. Route the USB reader cable through the back keyboard opening.
8. Secure the keyboard assembly to the keyboard bracket. Leave three screw holes open on the right side (one in front, two in back)--where the reader bracket is placed.
9. Secure the reader bracket to the keyboard bracket using three 6-32 x 3/8 flat head Torx screws. Refer to Figure 1-21 on page 1-14.
10. Re-install the LCD bezel.

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Electronic Sled Configuration

1. Connect the 4-pin female end of the CD ROM power cable to the male end of the power adapter Y-cable.

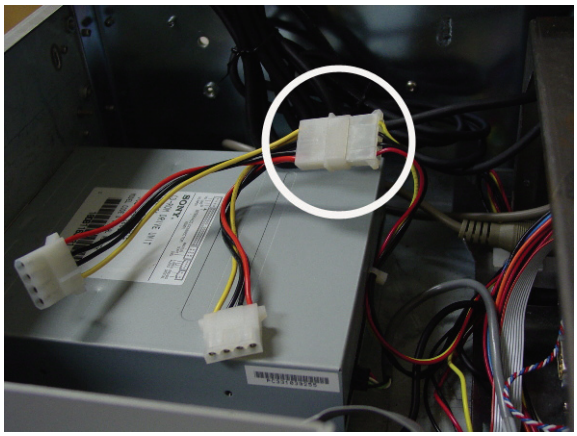

Figure 1-26. Splitting the CD-ROM power for the fingerprint scanner

2. Connect the 8-pin male end of the CD ROM power cable to the Powercom board if it is not already.
3. Connect one of the female ends of the Y-cable to the male end of the reader power cable.

Figure 1-27. Relaying power to the fingerprint scanner

4. Connect male molex connector of the card reader power cable to card reader (mag card or bar code) if it is not already.
5. If the sled does not have a SATA drive, skip to "Sleds without SATA Drive" on page 1-19.

Sleds with SATA Drive

1. Connect the female connector of the SATA cable to the SATA drive.
2. Connect the remaining power adapter Y-cable's female connectors to the SATA cable male connectors.

Figure 1-28. Sled configuration with SATA drive

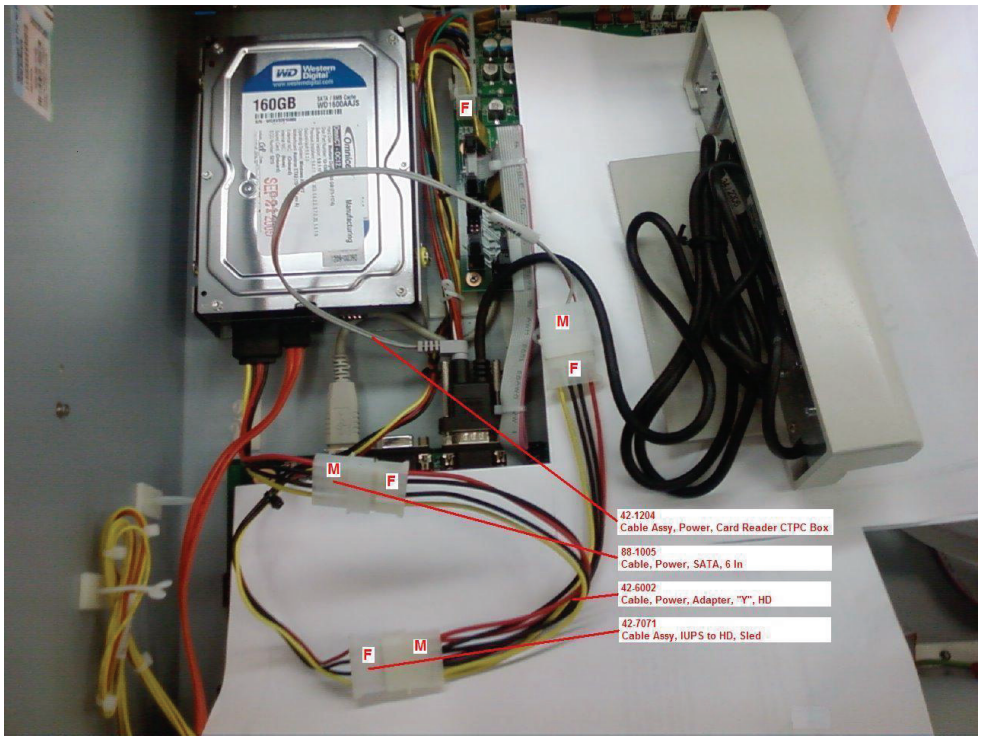

Figure 1-29. Connecting hard drive, powercom, and reader

3. Skip to "Final Procedures" on page 1-20.

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Sleds without SATA Drive

1. Connect the remaining open female end of the Y-cable into the CD ROM (IDE drive).

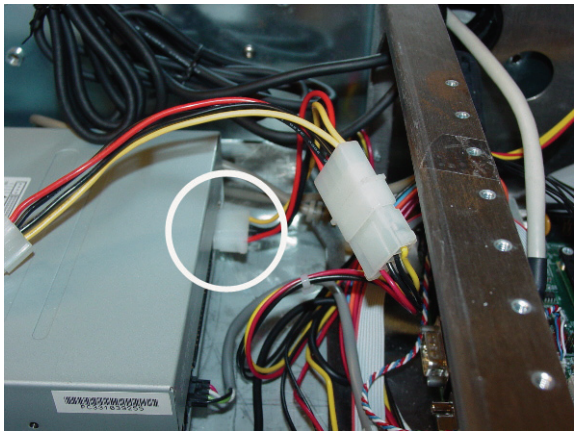

Figure 1-30. Returning power to the CD-ROM

2. Connect the (mag card reader or bar code scanner) USB cable into the USB port.

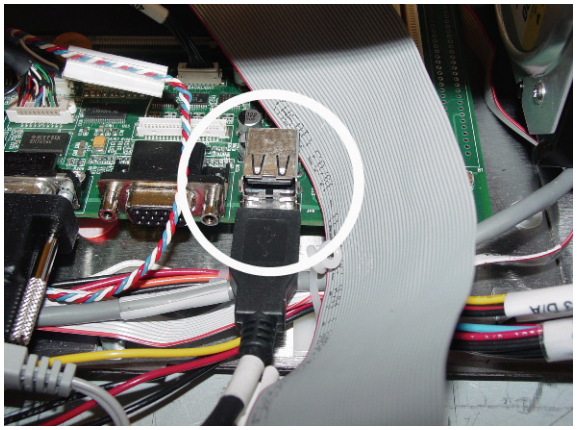

Figure 1-31. Securing the magnetic card reader or bar code scanner cable connection

Final Procedures

1. Remove the ESD wristband.
2. Replace the sled top.

Figure 1-32. Completed Replacement

3. Turn on the power switch in the back of the cabinet.
4. Reboot the Color Touch software.
5. Log into the cabinet (as Omnitech or other authorized User Type).
6. Proceed to "Software Configuration" on page 2-1.

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Software Configuration

Card readers can be used with various Color Touch cabinets and with OptiFlex cabinets. The configuration procedures vary for the different software systems.

Color Touch

Feature Overview

The Magnetic Identification Card Reader has been enhanced with additional configuration options. This allows Omnicell customers to configure their system for more complex magnetic card types. There are four Card Reader types. Type 0 is the default reader type. Type 1 is the standard card reader. Types 2-4 are customized for the varying needs of customer sites.

There are two modes to determine the validity of a user; User ID mode, and Card ID mode. These modes control how a user is prompted to gain access to a Color Touch. In Card ID Mode, when an ID is entered that does not match the CARD_ID entry (Mag Card ID) in the Users database, an Invalid Card Usage warning is generated to the OmniCenter.

In addition, facilities have the option to require magnetic User ID Card-swipe for user login and witness functions. This option is referred to as Card Only Positive ID. If enabled, users must swipe a valid User ID Card, then type in a unique password. The user will not be able to enter his/her User ID via the console keyboard.

Functionality/Implementation Options

Software implementation for this feature requires the following general steps:

At the OmniCenter:

1. If using Card ID mode, populate the **Mag Card ID** field in the Users table for each applicable user. See "OmniCenter Requirements" on page 2-4.

At the Color Touch cabinet (via Omni Config):

1. Designate the **Card Mode** (User ID or Card ID).
2. If using Card Only Positive ID, enable **Card Only Positive ID** mode (Card Only User Login/Witness option).
3. Designate the **Card Reader Type.**
4. Enter the applicable **Card Reader Settings** (Pre-skip and Post-skip).

User ID/Card ID Mode

User ID Entry Mode can be set to either User ID (default) or Card ID. If set to User ID, the standard User ID lookup is performed.

If User ID Entry Mode is set to Card ID, then an alternate user ID lookup will be performed. Any User ID entered by either the keyboard or mag card reader will be checked against the Mag Card ID field in the user's database record. In this mode, the prompt Enter Card ID displays on all login and witness ID entry windows.

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The Mag Card ID field is an alternate ID for the user that can be set at the server on the user information page. This allows enhanced security where users can be restricted from knowing their Mag Card ID and be required to swipe their card to log on.

If a mag card is lost, a new card can be assigned and a new Mag Card ID value set at the server without changing the user's User ID.

Card Only Positive ID

If the Card Only User Login/Witness configuration option is enabled, the user logs into the cabinet and/or provides witness information by swiping a valid User ID Card. A password is then entered using the console keyboard.

Even with this option is enabled, Omnitech users can still log in manually to access cabinet administration and maintenance functions. However, they will not have access to Patient Care functions. Omnitech users must swipe a valid User ID Card for witness purposes.

If the user attempts to enter their User ID via the keyboard (for login or witness), the following warning displays: User ID Card required for login and witness. Please use your User ID Card.

Card Reader Types

Type 0

The entire card data is treated as the User ID. This is the default type.

Type 1

Type 1 extracts one specific part of the mag card data as the User ID. The data is broken into three parts:

- Pre-Skip: specified number of characters to skip from the first card data character before reading starts
- Read: the number of characters to read for the User ID
- Post Skip: number of characters to skip after the User ID to the last card data character; this number must be greater than 0

If the number of characters on the card equal the total number specified for Pre-Skip, Read, and Post-Skip, the characters read and stored are treated as the User ID. Otherwise, the card swipe is ignored.

The User ID and mag card data are fixed width. The User ID size and the total amount of characters on all cards at the site must be exactly the same.

Type 2

Type 2 uses a two-delimiter character search using the equal sign (=).

The card reader data is scanned for two instances of the equals sign(=). If two instances of the delimiter cannot be found, the card swipe is ignored.

After the second delimiter, all the characters up to the end of the card are read and stored as the User ID. One to twelve alphanumeric characters must be read (not counting colons) or the card swipe is ignored.

The User ID and mag card data do not have to be fixed width. Because a delimiter search is used, the User ID and the total amount of characters on all cards at the site can vary.

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Type 3

Type 3 processing extracts two specific parts of the mag card data and combines them into the User ID. The data is broken into five parts:

- Pre-Skip: specified number of characters to skip from the first card data character before reading starts
- Read: the number of characters to read for the first part of the User ID
- Secondary Skip: number of characters to skip between reads
- Secondary Read: the number of characters to read for the second part of the User ID
- unused: any characters remaining in the card data after the Secondary Read are ignored.

The characters from the two reads are combined and treated as a User ID. The number of characters specified by Read and Secondary Read must total 12 or less.

Type 3 requires the User ID to be a fixed width. The placement of the ID is also fixed. The User ID size and the placement of data on all cards at the site must be exactly the same. However, the total width (number of characters) of the mag card data is not fixed.

Type 4

Type 4 uses a single delimiter character search, and extracts characters in front of the delimiter. The delimiter character to search for is set by the Delimiter Character configuration option. This option defaults to the equals sign (=).

The card reader data is scanned for the first instance of the delimiter character. If the delimiter is not found, the card swipe is ignored.

- Precede Characters: number of characters to read for the User ID working backwards from the delimiter towards the start of the data
- unused: any characters after the delimiter or extra characters between the first card data character and the last character of the reverse read

If the number of alphanumeric characters read is less than what was specified by Precede Characters, the card swipe is ignored. Any extra characters at the start of the card data or after the delimiter is ignored.

Type 4 requires the User ID be fixed width and the placement of the ID to be fixed with respect to the delimiter. However, the total width of the mag card data is not fixed. Data before and after the captured ID is ignored.

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OmniCenter Requirements

If the card reader is set to User ID mode, the card swipe is validated against the User ID field of the User record in the OmniCenter Users table. If the User IDs and card readers are configured properly, no additional implementation steps are required at the OmniCenter.

If the card reader is set to Card ID mode, the card swipe is validated against the Mag Card ID field of the User record in the OmniCenter Users table. If this field is not already populated, a valid Mag Card ID must be entered for each user.

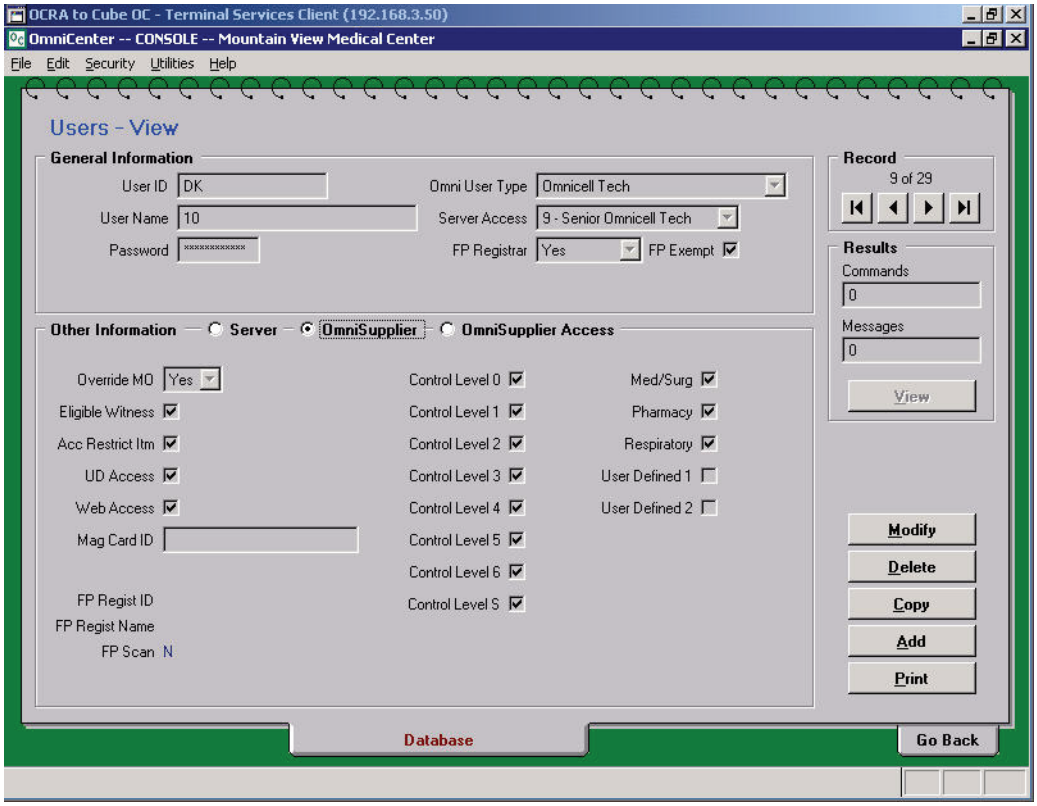

Figure 2-1. Database Tab of the Users Table / Mag Card ID Field in a User Record

Cabinet Configuration Options

Config Name	<USERS>
Menu Name	User ID Entry Mode Options
Description	Determines whether the ID derived from the mag card or typed in at the keyboard is checked against the entry in the USER_ID or CARD_ID field in the database Users table.
Values	USER_ID, CARD_ID.
Default	USER_ID

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The following configuration options are found under the **User ID Card Options** submenu.

Config Name	<CARD READER>
Menu Name	Card Reader Type
Description	Enables User ID card support and specifies the type.
Values	USER_ID, CARD_ID.
Default	None, Type 1, Type 2, Type 3, Type 4

Config Name	<CARD READER>
Menu Name	Card Only User Login/Witness
Description	If enabled, a User ID Card is required for login and witness functions. Omnitech users can login manually, but will not have access to the Patient Care functions (Blue Screen). All users, including Omnitech, are required to swipe a valid User ID Card for witness purposes.
Values	Enable, Disable
Default	Disable

The following configuration options are found under the **User ID Card Options**, Card Settings submenu.

Config Name	<CARD READER>
Menu Name	Card Reader Pre-Skip Characters
Description	For Type 1 & 3 card reader: number of characters to skip at the start of the card data.
Values	0-1024
Default	0

Config Name	<CARD READER>
Menu Name	Card Reader Post-Skip Characters
Description	For Type 1 card readers: the number of characters to ignore at the end of the card
Values	0-1024
Default	0

Config Name	<CARD READER>
Menu Name	Card Reader Read Characters
Description	For Type 1 & 3 card reader: number of characters to read after the first skip block
Values	0-12
Default	0

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Config Name	<CARD READER>
Menu Name	Card Reader Secondary Skip Characters
Description	For Type 3 card reader: number of characters to skip after the first read block
Values	0-1024
Default	0

Config Name	<CARD READER>
Menu Name	Card Reader Secondary Read Characters
Description	For Type 3 card reader: number of characters to read after the second skip block
Values	0-1024
Default	0

Config Name	<CARD READER>
Menu Name	Card Reader Precede Characters
Description	For Type 4 card reader: number of characters to read preceding the delimiter.
Values	0-12
Default	0

Config Name	<CARD READER>
Menu Name	Card Reader Delimiter Character
Description	For Type 4 card reader: search delimiter character
Values	Any keyboard value
Default	=

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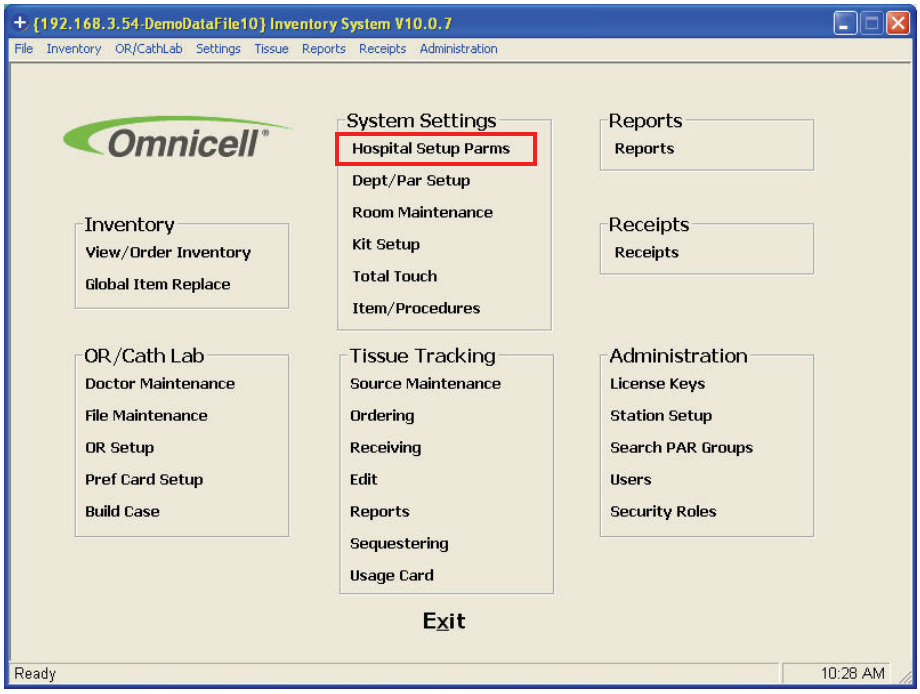
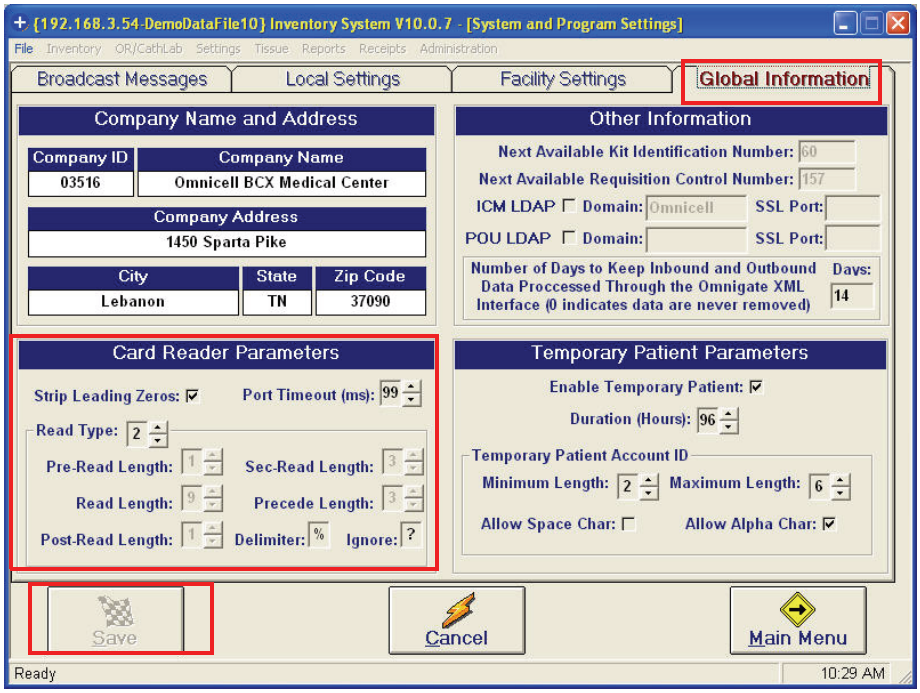
OptiFlex

Setting Card Reader Options

1. Select **Hospital Setup Params** from the ICM Main Menu.



2. Click on the **Global** tab in the Hospital Setup window.

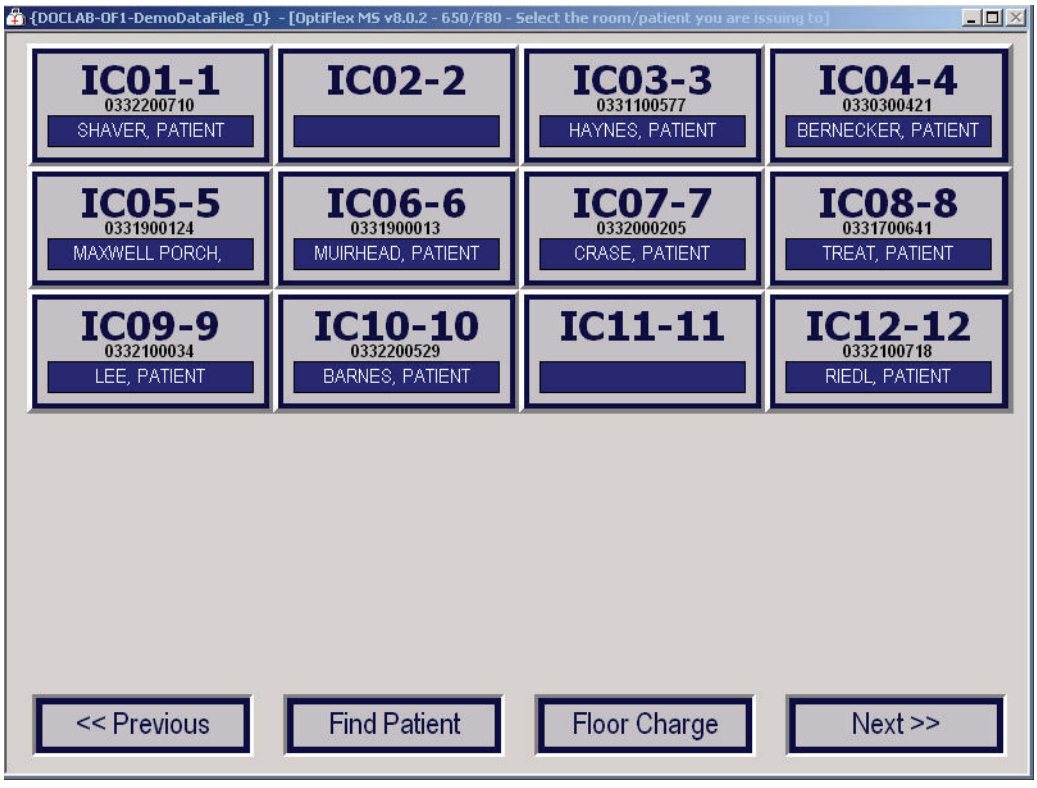


3. Enter the reader option values.

Parameter	Description	Possible Values	Default Value
Strip Leading Zeroes	Removes leading zeroes from the User ID data	Enabled/Disabled	Disabled
Port Time-out	Release port after milliseconds of inactivity	25-99	50
Read Type	See "Card Reader Types" on page 2-2.	0-4	0
Pre-Read Length	For Type 1 & 3 card reader: number of characters to skip at the start of the card data.	0-99	0
Read Length	For Type 1 & 3 card reader: number of characters to read after the first skip block	0-99	0
Post Read Length	For Type 1 & 3 card reader: the number of characters to ignore at the end of the card	0-99	0
Sec(ondary) Read Length	For Type 3 card reader: number of characters to read after the second skip block	0-99	0
Precede Length	For Type 4 card reader: number of characters to read preceding the delimiter.	0-99	0
Delimiter	For Type 2 & 4 card reader: search delimiter character	Any keyboard character	=
Ignore	For Type 2 card reader: character to not count	Any keyboard character	:

Table 2-1. Card Reader Options

4. Click **Save Changes**.
5. Type MM on the Medical Surgical, Surgical Supplies, or Procedures module window.



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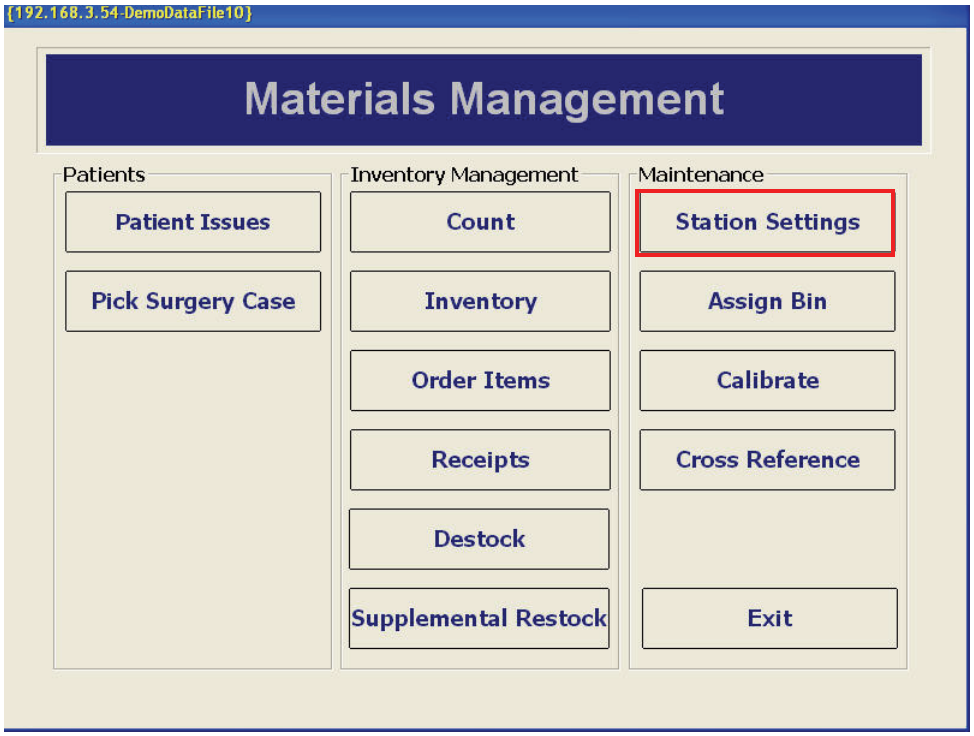
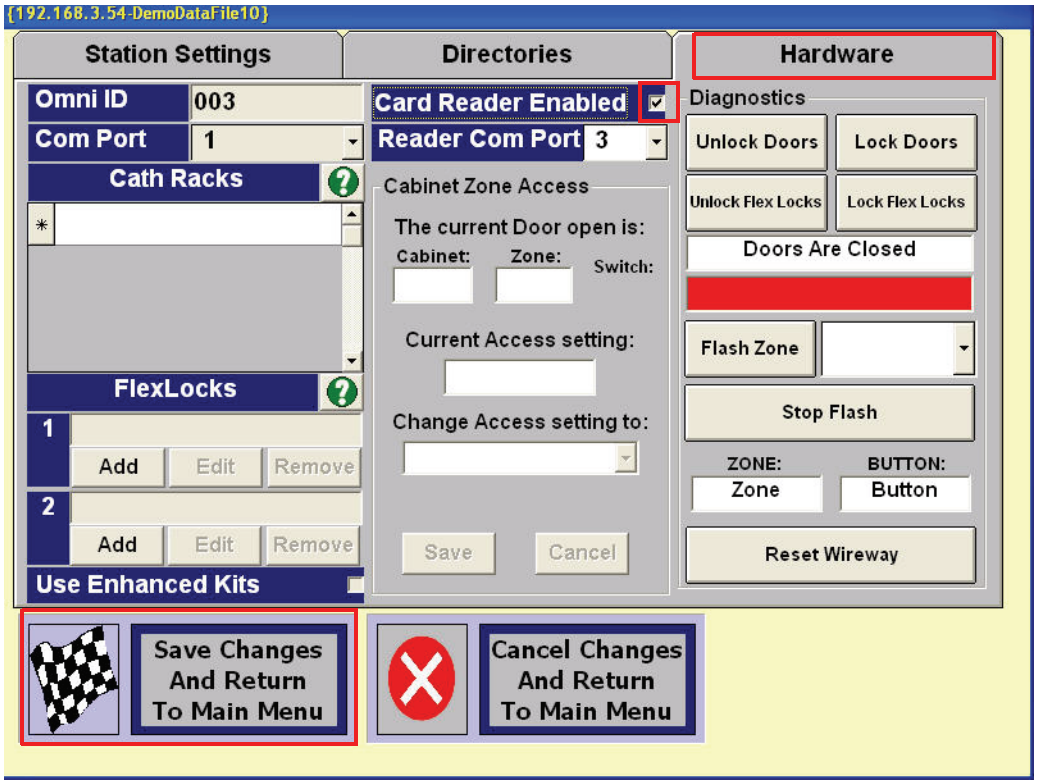
6. Select **Station Settings** from the Maintenance section of the Materials Management main menu. A login window is displayed.



7. Type in the proper login information, then click **OK** or **Enter**.

8. Click on the **Hardware** tab of the Station Setup window.



9. Click on the **Card Reader Enabled** box if it is not already marked.

Note: The **Reader Com Port** value is preset to 3. Check with IT for the proper value (1-4) if a change is needed.

10. Click **Save Changes and Return to Main Menu**.

Mag Card Reader

Specifications

The magnetic card reader should conform to the ISO 7811 1-5 Standard.

- Formats: ISO 7811, AAMVA, and CA DMV
- Tracks: 1, 2, 3

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XP Window Base Setup

This procedure was formerly done in manufacturing, but can now be done in the field.

1. On the CT or PC Box screen, click on **Exit to Shell** icon.
2. Click **OK** on the confirmation window.
3. In the Exit the Shell window, click **Just Quit on Exit** in the lower right corner, then click **Exit the Shell**.
4. Enter the proper user ID and password, then click **Enter**. The application exits to MS-Window XP desktop screen.
5. Got to: **Start** > **Programs** > **Accessories** > **Communications** > **Hyper Terminal**. The New Connection - Hyper Terminal window is displayed with Connection Description.

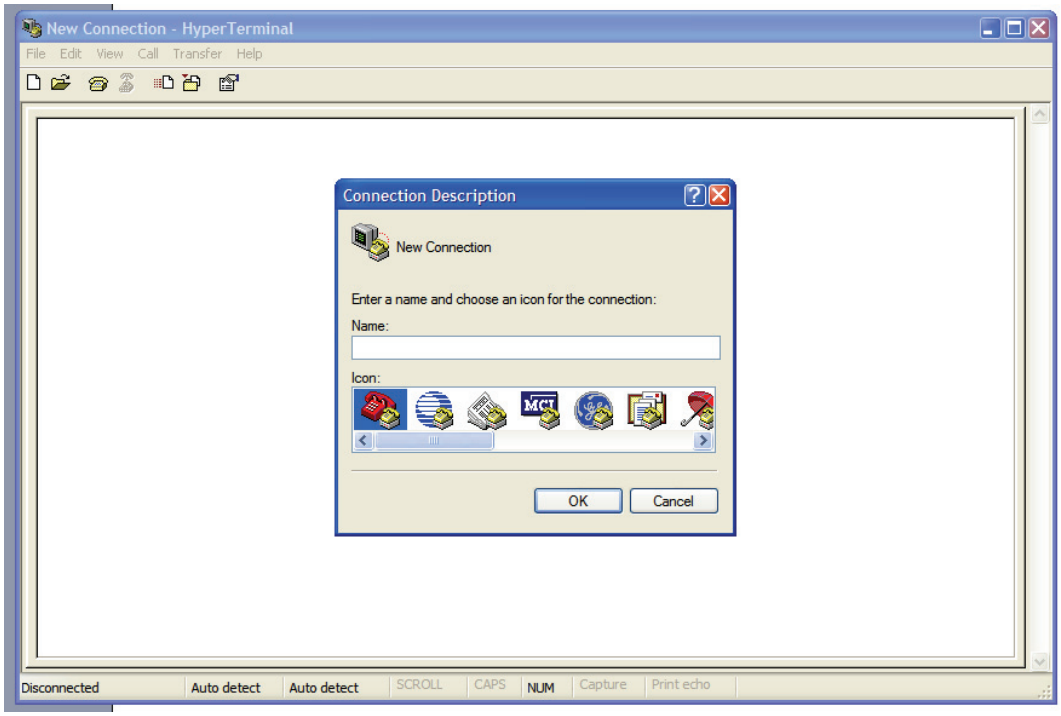

Figure 2-2. New Connection/Hyper Terminal window

6. Click **OK** in the Connection Description window.
7. Type in a New Connection name. Use a reference to the customer site. (Example: Baptist)
8. Click **OK**. The Connection Description window closes and the New Connection - Hyper Terminal window connects to the specified Hyper Terminal window.

9. Click on **File** in the upper left corner of the Hyper Terminal window, then select **Properties** from the drop-down menu. The Properties window is displayed.

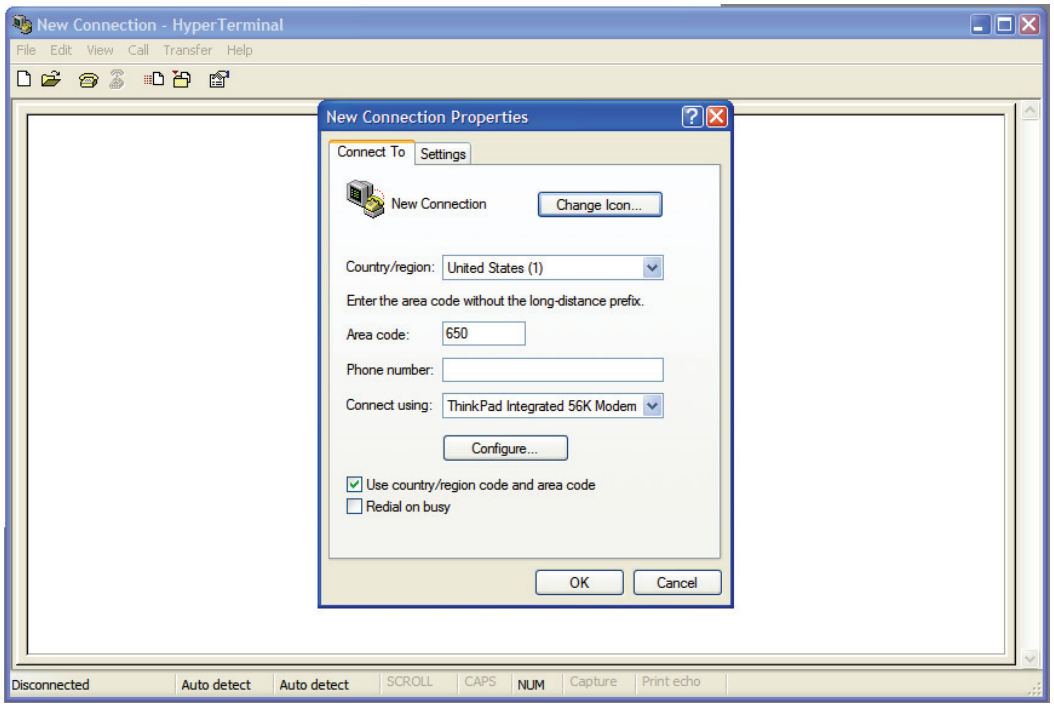

Figure 2-3. Properties window

10. Click the **Connect To** tab and make the following entries:
    - **Country/Region**: Set to United States of America (1).
    - **Area Code**: Type the site's Area Code.
    - **Phone Number**: Set to Open.
    - **Connect Using**: Set to COM3.
    - Check the **Use country/region code and area code** option.
    - Uncheck the **Redial on busy** option.

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11. Click on **Setting** tab and make the following entries:

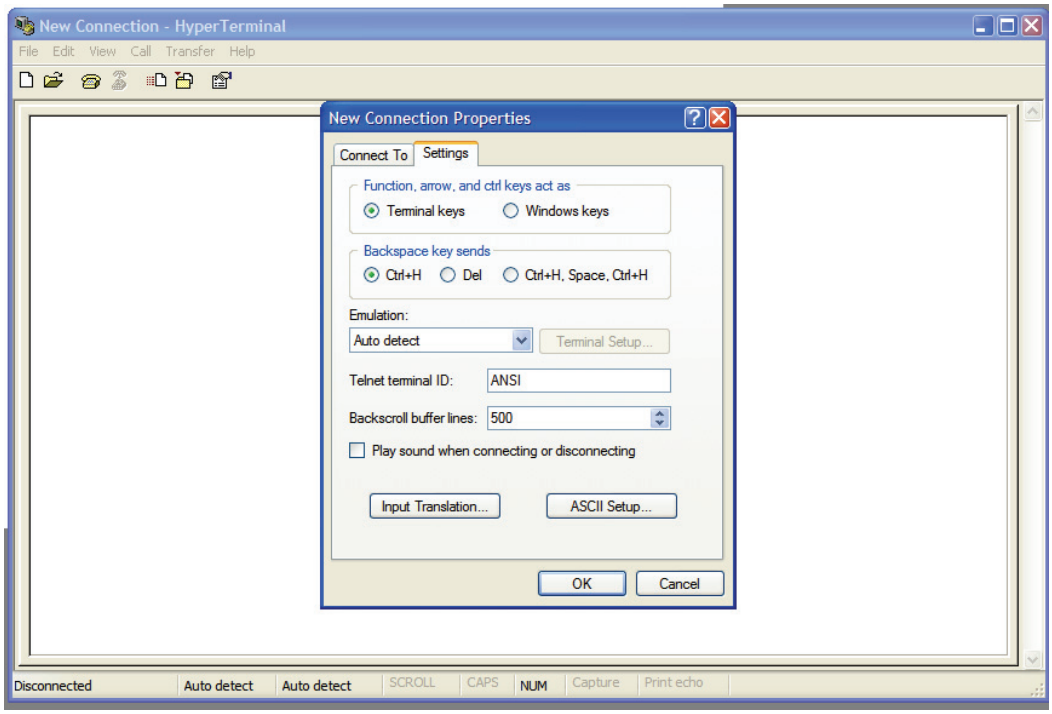

Figure 2-4.

- Under **Function, Arrow, and Control keys act as**:
  - Check the **Terminal keys** option.
  - Uncheck the **Windows key**s option.
- Under **Backspace key sends**:
  - Check the **Ctrl+H** option.
  - Uncheck the **Del** and **Ctrl+H, Space, Ctrl+H** options.
- **Emulation**: Set to Auto detect.
- **Telnet terminal ID**: Set to ANSI.
- **Backscroll buffer lines**: Set to 500.
- Uncheck the **Play sound when connection or disconnecting** option.

12. Click **ASCII Setup** and make the following entries:

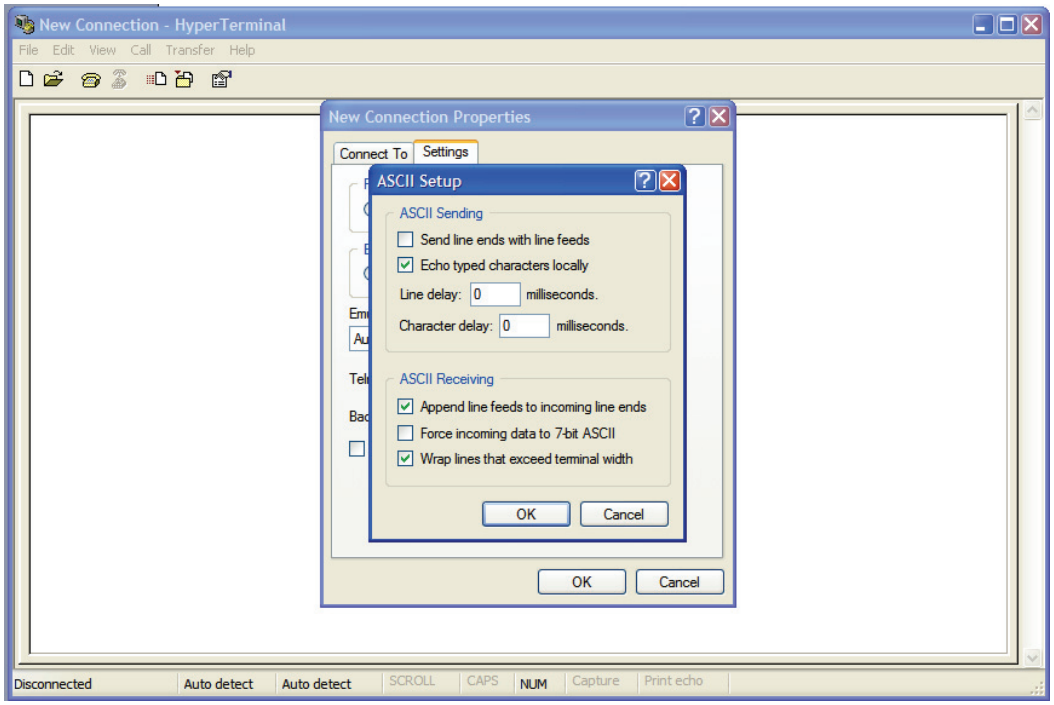

Figure 2-5.

- Under **ASCII Sending**:
  - Uncheck the **Send line ends with line feeds** option.
  - Check the **Echo typed characters locally** option.
  - **Line delay**: Set to 0 milliseconds.
  - **Character delay**: Set to 0 milliseconds.
- Under ASCII **Receiving**:
  - Check the **Append line feeds to incoming line ends** option.
  - Uncheck the **Force incoming data to 7-bit ASCII** option.
  - Check the **Wrap lines that exceed terminal width** option.

13. Click **OK** once the ASCII setup complete.
14. Click **OK** to close the Properties window.
15. Type the following in the Hyper Terminal Window.
    a. Type /E/D/FA, then press **Enter**. The computer sounds two short beeps.
    b. Type AW, then press **Enter**. The computer sounds two short beeps.
    c. Type AZ, then press **Enter**. The computer sounds three short beeps.
16. Click on File drop down menu in the top left of the window, then select **Save**.
17. Click on File drop down menu in the top left of the window, then select **Exit**.

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Configuration

1. Double click on the **OmniCT** icon on the MS-Window XP desktop.
2. Click **Start Now**.
3. Type in the proper user ID and password, then click **Enter.**
4. Click on **OmniConfig**, then select **Card Reader**.
5. Select **Hardware Setting**, then make the following entries.
   - Select **Card Reader Band Rate**.
     a. Set to 9600.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Flow Control**.
     a. Set to Disable.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Post**.
     a. Set to COM3.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Timeout**.
     a. Set to 50.
     b. Click **Update**.
     c. Click **Previous Screen**.
6. Select **Patient ID**, then make the following entries.
   - Select **Patient ID Card Mode**.
     a. Set to Instant.
     b. Click **Update**.
     c. Click **Previous Screen** twice.
7. Select **User ID Card**, then make the following entries.
   - Select **Card Only User Login/Witness**.
     a. Set to Disable.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Type**.
     a. Set to Type 1.
     b. Click **Update**.
     c. Click **Previous Screen** twice.

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Verification

1. Go to: **OmniConfig** > **Card Reader** > **Hardware Setting** if not already there.
2. Select **Test Card Reader**.
3. Swipe the test card. The screen should display the card number—a maximum of 12 to 17 characters. (Example: ;00013262201111?[])
4. Record the screen display in a note.
5. Click **Previous Screen**.

Track 1 Programming

1. Go to **OmniConfig** > **Card Reader** > **Hardware Setting** if not already there.
2. Select **Card Setting**, then make the following entries.

Note: There is no setting for **Card Reader Delimiter Characters =**.

- Select **Card Reader Pre Skip Characters**.
  a. Set New Value to 4.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Card Reader Post Skip Characters**.
  a. Set New Value to 2.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Card Reader Read Characters**.
  a. Set New Value to 11.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Strip Leading Zeros**.
  a. Set Current Value to No.
  b. Click **Update**.
  c. Click **Previous Screen**.

Note: There is no setting for **Verify Card ID**.

3. Select **User IS Wizard**.
4. Type in the ID 13262201111.
5. Swipe the card into the badge reader slot.
6. Click **Previous Screen** twice to exit back to the Hardware Setting window.
7. Select **Test Card Reader**.
8. Swipe the card. The card number is displayed on the card reader data screen [13262201111].

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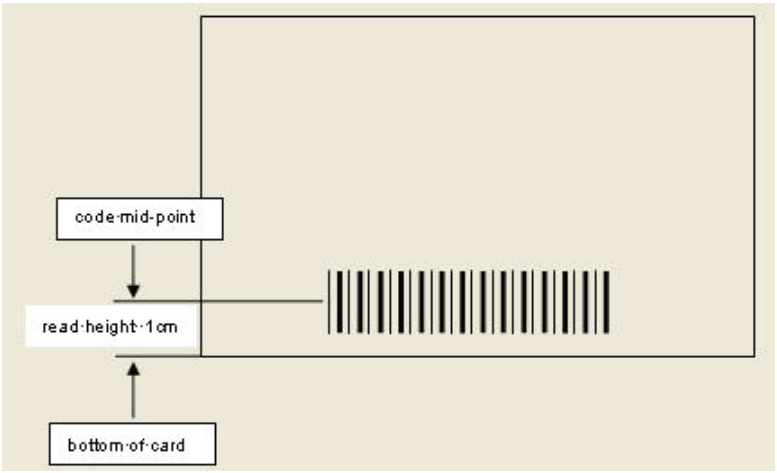
9. If the system can not read the test card, restart the process from "XP Window Base Setup" on page 2-11.
10. Click **Exit** to go to top menu window.

Bar Code Card Reader

Card Specifications



- Read Height: .400" (1cm)

Note: Centerline of barcode should be .400" from the bottom of the card. A minimum of a quarter inch spacing is required between the edge of the card and the code.

- Card width
  - Bar code media: .005" to .055"
  - Magnetic stripe media: .01" to .055"
- Max card thickness: .055"/.050"

Bar Code Print Quality

Standard, high-resolution scanners required a height minimum of 10 mils.

Infrared bar codes should be readable at the 940nm wavelength. This requires the use of carbon content ribbons for dot matrix printers.

Print quality must comply with ANSI standards. Grade C is the minimum acceptable level to enable the averaging process to work. For more details, refer to *The Layman's Guide to ANSI, CEN, and ISO Barcode Print Quality Documents*.

Bar Code Data Guidelines

Each facility must identify a single software configuration process type to implement. The user ID and bar code data must be a fixed width. The user ID size and the total amount of data on all cards at the site must be exactly the same.

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Bar Code Formats/Symbologies

- Code 39
- Interleaved 2 of 5
- Industrial 2 of 5
- Code 128
- Codabar
- UPC-A
- EAN-13
- MSI/Plessy
- Telepan
- UPC-E
- EAN-8

XP Window Base Setup

This procedure was formerly done in manufacturing, but can now be done in the field.

1. On the CT or PC Box screen, click on **Exit to Shell** icon.
2. Click **OK** on the confirmation window.
3. In the Exit the Shell window, click **Just Quit on Exit** in the lower right corner, then click **Exit the Shell**.
4. Enter the proper user ID and password, then click **Enter**. The application exits to MS-Window XP desktop screen.

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5. Got to: **Start** > **Programs** > **Accessories** > **Communications** > **Hyper Terminal**. The New Connection - Hyper Terminal window is displayed with Connection Description.

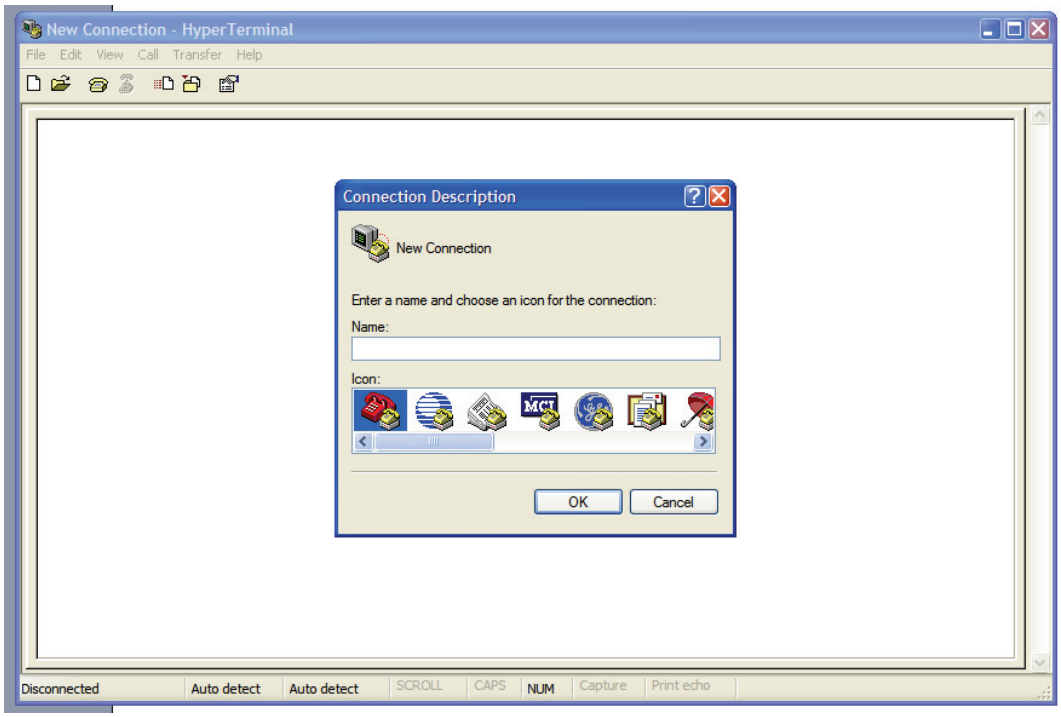

Figure 2-6. New Connection/Hyper Terminal window

6. Click **OK** in the Connection Description window.
7. Type in a New Connection name. Use a reference to the customer site. (Example: Baptist)
8. Click **OK**. The Connection Description window closes and the New Connection - Hyper Terminal window connects to the specified Hyper Terminal window.

9. Click on **File** in the upper left corner of the Hyper Terminal window, then select **Properties** from the drop-down menu. The Properties window is displayed.

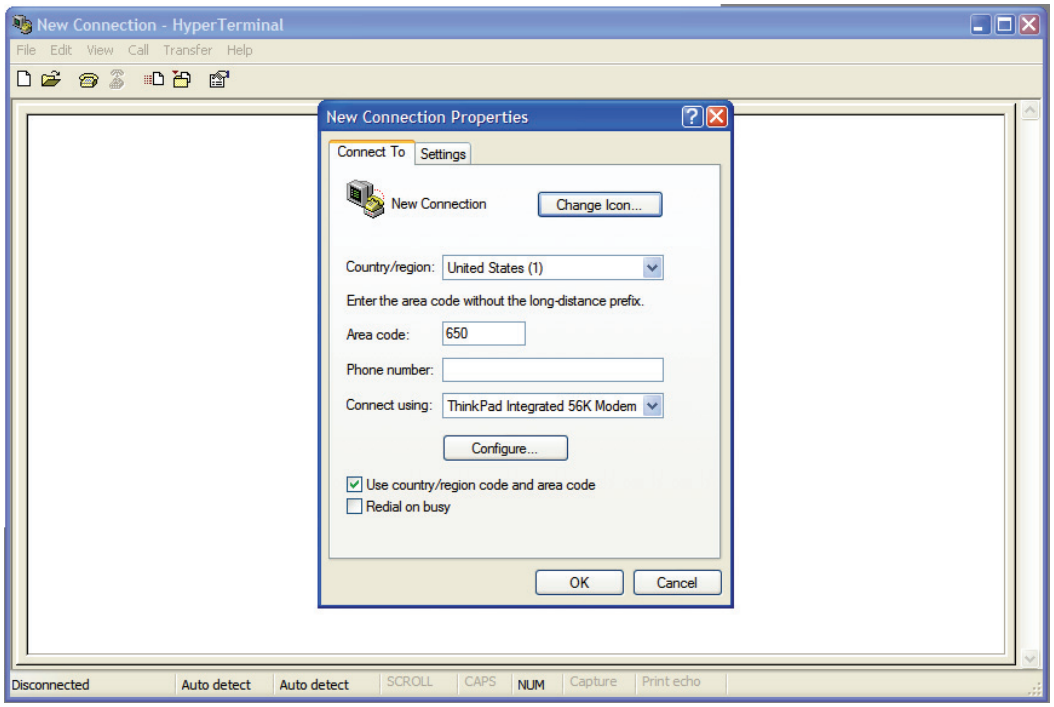

Figure 2-7. Properties window

10. Click the **Connect To** tab and make the following entries:
    - **Country/Region**: Set to United States of America (1).
    - **Area Code**: Type the site's Area Code.
    - **Phone Number**: Set to Open.
    - **Connect Using**: Set to COM3.
    - Check the **Use country/region code and area code** option.
    - Uncheck the **Redial on busy** option.

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11. Click on **Setting** tab and make the following entries:

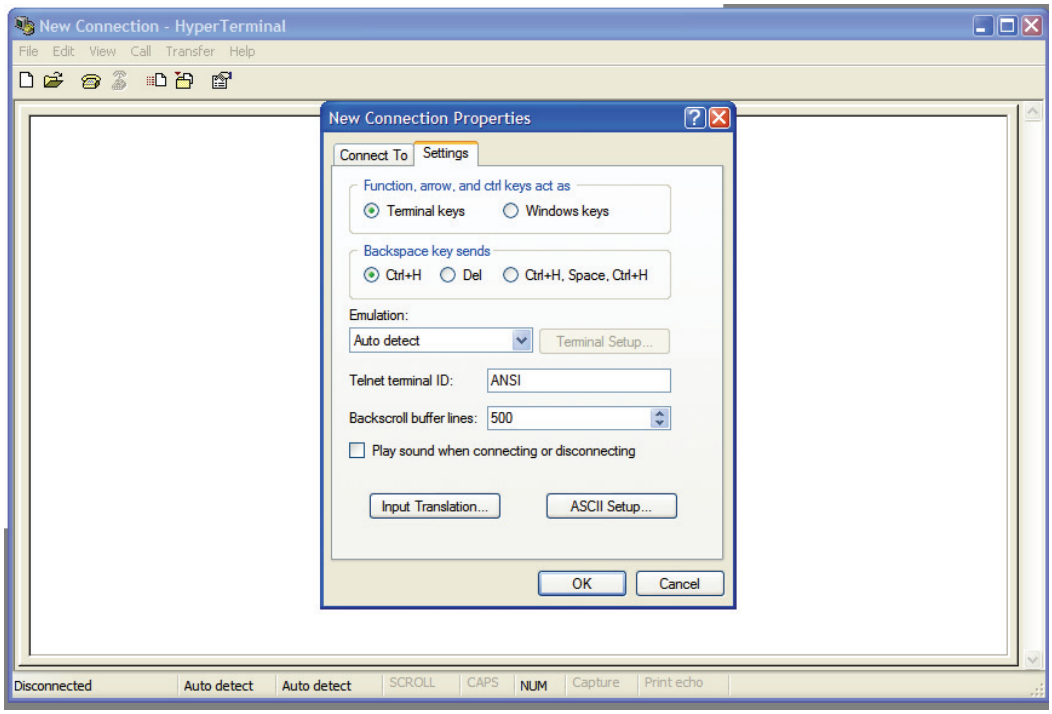

Figure 2-8.

- Under **Function, Arrow, and Control keys act as**:
  - Check the **Terminal keys** option.
  - Uncheck the **Windows key**s option.
- Under **Backspace key sends**:
  - Check the **Ctrl+H** option.
  - Uncheck the **Del** and **Ctrl+H, Space, Ctrl+H** options.
- **Emulation**: Set to Auto detect.
- **Telnet terminal ID**: Set to ANSI.
- **Backscroll buffer lines**: Set to 500.
- Uncheck the **Play sound when connection or disconnecting** option.

12. Click **ASCII Setup** and make the following entries:

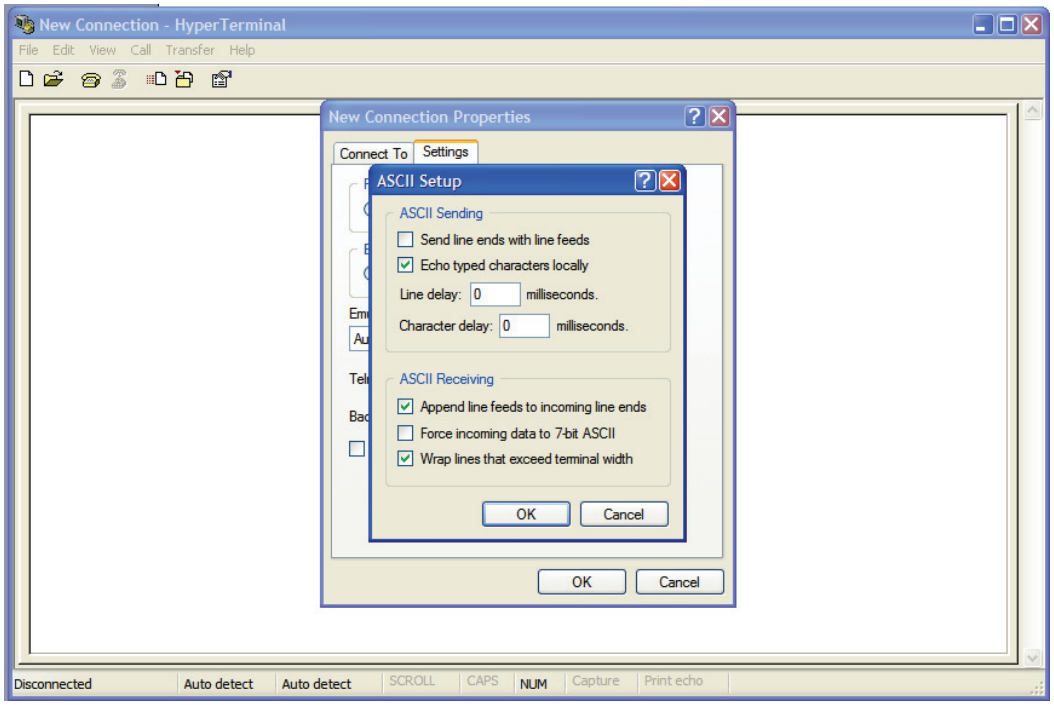

Figure 2-9.

- Under **ASCII Sending**:
  - Uncheck the **Send line ends with line feeds** option.
  - Check the **Echo typed characters locally** option.
  - **Line delay**: Set to 0 milliseconds.
  - **Character delay**: Set to 0 milliseconds.
- Under ASCII **Receiving**:
  - Check the **Append line feeds to incoming line ends** option.
  - Uncheck the **Force incoming data to 7-bit ASCII** option.
  - Check the **Wrap lines that exceed terminal width** option.

13. Click **OK** once the ASCII setup complete.
14. Click **OK** to close the Properties window.
15. Type the following in the Hyper Terminal Window.
    a. Type /E/D/FA, then press **Enter**. The computer sounds two short beeps.
    b. Type AW, then press **Enter**. The computer sounds two short beeps.
    c. Type AZ, then press **Enter**. The computer sounds three short beeps.
16. Click on File drop down menu in the top left of the window, then select **Save**.
17. Click on File drop down menu in the top left of the window, then select **Exit**.

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Configuration

1. Double click on the **OmniCT** icon on the MS-Window XP desktop.
2. Click **Start Now**.
3. Type in the proper user ID and password, then click **Enter.**
4. Click on **OmniConfig**, then select **Card Reader**.
5. Select **Hardware Setting**, then make the following entries.
   - Select **Card Reader Band Rate**.
     a. Set to 9600.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Flow Control**.
     a. Set to Disable.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Post**.
     a. Set to COM3.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Timeout**.
     a. Set to 50.
     b. Click **Update**.
     c. Click **Previous Screen**.
6. Select **Patient ID**, then make the following entries.
   - Select **Patient ID Card Mode**.
     a. Set to Instant.
     b. Click **Update**.
     c. Click **Previous Screen** twice.
7. Select **User ID Card**, then make the following entries.
   - Select **Card Only User Login/Witness**.
     a. Set to Disable.
     b. Click **Update**.
     c. Click **Previous Screen**.
   - Select **Card Reader Type**.
     a. Set to Type 1.
     b. Click **Update**.
     c. Click **Previous Screen** twice.

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Verification

1. Go to: **OmniConfig** > **Card Reader** > **Hardware Setting** if not already there.
2. Select **Test Card Reader**.
3. Swipe the test card. The screen should display the card number—a maximum of 9 to 12 characters. (Example: 00106867[])
4. Record the screen display in a note.
5. Click **Previous Screen**.

BarCode Card Programming

1. Go to **OmniConfig** > **Card Reader** > **Hardware Setting** if not already there.
2. Select **Card Setting**, then make the following entries.

Note: There is no setting for **Card Reader Delimiter Characters =**.

- Select **Card Reader Pre Skip Characters**.
  a. Set New Value to 0.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Card Reader Post Skip Characters**.
  a. Set New Value to 2.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Card Reader Read Characters**.
  a. Set New Value to 7.
  b. Click **Update**.
  c. Click **Previous Screen**.
- Select **Strip Leading Zeros**.
  a. Set Current Value to No.
  b. Click **Update**.
  c. Click **Previous Screen**.

Note: There is no setting for **Verify Card ID**.

3. Select **User IS Wizard**.
4. Type in the ID 0010686.
5. Swipe the card into the badge reader slot.
6. Click **Previous Screen** twice to exit back to the Hardware Setting window.
7. Select **Test Card Reader**.
8. Swipe the card. The card number is displayed on the card reader data screen [0010686].

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9. If the system can not read the test card, restart the process from "XP Window Base Setup" on page 2-18.
10. Click **Exit** to go to top menu window.

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Appendix A: Part List

Part Cross-reference

The following table links the part mentioned in the text to the related part number and description with a cross-reference link back to the procedure where it is used.

Part #	Part Name	Agile Description	Where Used
13-1101-47	PC box bezel screws	(contained in) MFG ASSY,PC BOX,OMNISUPPLIER 4.7	"ColorTouch / OptiFlex Tall Cabinets"
14-1106	PC box bezel	BEZEL,STD,PC,BOX,SILKSCREENED	"ColorTouch / OptiFlex Tall Cabinets"
14-1109	card reader (cabinets)	Mag Card Reader, MCR100 (blue supply)	"ColorTouch / OptiFlex Tall Cabinets"
14-1117		Bar Code Reader BRC 100 .400, keyboard wedge (blue supply)	
14-1199		Mag Card Reader, 3-Trk [OptiFlex compatible]	
14-1200		Bar Code Reader, serial, 490	
14-1202		Bar Code Reader, serial (blue supply)	
14-1203		Bar Code Reader, serial (blue printer)	
14-1209		Mag Card Reader, 75bpi, 1-Trk [OptiFlex compatible	
14-1230		Bar Code Reader, serial, 400	
14-7005		Mag Card Reader, MCR100 (blue printer)	
14-7011		Bar Code Reader BRC 100 .400, keyboard wedge (blue printer)	
14-1123	printer lid	MFG,ASSY,PRINTER,OMNIRX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
14-1139	card reader (sleds)	Mag Card Reader, MCR100 (pharmacy)	"OmniRx/OmniTT/Half Cell/ Anesthesia TT" "Electronic Sled Configuration"
14-1140		Bar Code Reader BRC 100 .400, keyboard wedge (pharmacy)	
14-1141		Mag Card Reader, MCR100 (supply)	
14-1142		Bar Code Reader BRC 100 .400, keyboard wedge (supply)	
14-1146		Mini Mag Card Reader	
14-1206		Bar Code Reader, serial (pharmacy)	
14-1207		Bar Code Reader, serial (supply)	
42-1168	card reader USB cable	Mag Card Power Cable Assy	"Electronic Sled Configuration"

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Part #	Part Name	Agile Description	Where Used
42-1173 42-1209 42-7093 42-8030	card reader serial cable	CABLE,ASSY,SERIAL,MAG,CARD,586 CABLE,ASSY,SERIAL,233 CABLE ASSY, SERIAL, EXTENSION, MINIMAG, CARD READER, OMNIRX CABLE,ASSY,SERIAL,BAR,CODE,PWR	"OmniRx/OmniTT/Half Cell/ Anesthesia TT" "ColorTouch / OptiFlex Tall Cabinets"
42-1210	fan cable	CABLE,ASSY,FAN RETROFIT COOLING,OMNIRX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
14-1213 14-1214 14-1215 14-1231	reader assembly (AWS)	Mag Card Reader, 75bpi, 1-Trk Mag Card Reader, 3-Trk Bar Code Reader, serial, 490 Bar Code Reader, serial, 400	"Anesthesia Workstation (AWS)"
42-1232	powercom ribbon cable	CABLE,ASSY,BATTERY,18V,UPS,CT PC BOX,POWERCOM3	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
42-1242	display cable	CABLE,ASSY,LVDS,LCD DISPLAY	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
42-1204	card reader power cable USB reader cable / USB cable	CABLE,ASSY,POWER,CARD,READER CT,PC,BOX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT" "ColorTouch / OptiFlex Tall Cabinets" "Electronic Sled Configuration" "Sleds without SATA Drive" "Anesthesia Workstation (AWS)"
42-1302	keyboard cable	CABLE,ASSY,USB KEYBOARD,QWERTY TO MOTHERBOARD,CTPC	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
42-6002	power adapter Y-cable	CABLE,POWER,ADAPTER,"Y",HD	"Electronic Sled Configuration"
42-7025	speaker cable	CABLE,ASSY,SPEAKER,OMNIRX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
42-7037	touch screen cable	CABLE,ASSY,TOUCHPAD DATA, SERIAL,RXCT	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
42-7071	CD ROM power cable	CABLE,ASSY,IUPS,TO,HD,SLED	"Electronic Sled Configuration"
42-7088	printer cable	CABLE ASSEMBLY, PRINTER, 48" FOLDED, OMNIRX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
51-7046	brass pivot	PIVOT,PRINTER,ASSY,OMNIRX	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
53-7258	reader bracket	BRACKET,FINGERPRINT,CARD READER,ANESTHESIA	"Anesthesia Workstation (AWS)"
53-7181	keyboard-LCD bracket	BKT,KEYBD-LCD,CONSOLE ANESTHESIA	"Anesthesia Workstation (AWS)"
56-7020	keyboard bezel	BEZEL,KEYBOARD,ANESTHESIA CARD READER, FINGERPRINT, MACHINED	"Anesthesia Workstation (AWS)"

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Part #	Part Name	Agile Description	Where Used
57-7068	LCD bezel cover	BEZEL,LCD,REAR,CONSOLE ANESTHESIA	"Anesthesia Workstation (AWS)"
88-1005	SATA cable	CABLE,POWER,SATA,6IN	"Sleds with SATA Drive"
94-6090	kurly locks	CABLE,MOUNT,KURLY,LOK,RICHCO KLB-350A-RT	"ColorTouch / OptiFlex Tall Cabinets"
94-6147	LCD bevel cover screws	SCREW,BH,TORX,6-32,X,3/8,SS	"Anesthesia Workstation (AWS)"
94-6162	6-32 flathead screws	SCREW,FH,TORX,6-32,X,3/16,100,DEG,C'SINK	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
94-6285	e-ring	E-RING,7/32,SHAFT,SS	"OmniRx/OmniTT/Half Cell/ Anesthesia TT"
94-6290	reader bracket screws keyboard bezel screws	SCREW,PT,PAN,PHILIP,K30-1.34,X,8MM	"Anesthesia Workstation (AWS)"
95-6007	cable tie	CABLE,TIE,4 IN.	"ColorTouch / OptiFlex Tall Cabinets"

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Kit Listing

The following table lists the kits that are used in this document. See "Required Kits" on page 1-2.

Table A-1. Card Reader Kit / Parts List

Kit #	Item #	Item Description	Notes	Qty
12-6007		OPTION,KIT,PATIENT,ID,SYSTEM		1
	65-6003	MAGNETIC,CARDS,ENCODED,PKG,OF,100		5
	65-6004	LABEL,BLANK,2.25,X,1.25 ROLL,OF,1135		2
	70-6007	PRINTER,LABEL,TLP-2242 OMNISTOCKROOM/ FLOORSTOCK		1
	71-0004	MAG CARD,READER,KEYBD,INPUT		1
	82-6042	CABLE,EXTENSION,DB9,M/F,6		1
14-1109		Mag Card Reader Kit	Model MCR 100 / Blue PC Box	1
	14-1110	Std PC Box Mag reader Bezel	Silk screened	1
	42-1168	Mag Card Power Cable Assy		1
	53-1027	Mag Card Scratch Plate Bezel Mount		1
	71-1055	IDT Mag Card Reader	OTI 3820-12	1
	94-6208	Screw,PH,PAN,HD,M3,X,5,SS		2
14-1117		Bar Code Reader Kit	Model BRC100	1
	14-1116	Std PC Box Bar Code Bezel	Silk Screened	1
	51-1005	Omni Bar Code Bezel Frame		1
	71-1041	Bar Code Reader Slot	J-IHP 000,000,6RS	1
	94-6160	Screw, BH, Torx, 6-32 x 1/2, SS		2
14-1139		OPTION,KIT,MAG,CARD,OMNI-RX	for Blue Screen	1
	42-1168	CABLE,ASSY,POWER,MAG,CARD		1
	42-7093	CABLE ASSY, SERIAL, EXTENSION, MINIMAG, CARD READER, OMNIRX		1
	53-1054	ASSY,PRINTER,DOOR,CARD,READER,OMNIRX		1
	71-1055	MAG,CARD,READER,IDT OTI3820-12		1
	94-6236	SCREW,TRUSS,HD,TORX,4-40,X,1/4SS		2
14-1140		OPTION,KIT,BAR,CODE,OMNI-RX		1
	53-1054	ASSY,PRINTER,DOOR,CARD,READER,OMNIRX		1
	71-1041	BAR,CODE,READER,SLOT,J-IHP 000, 000, 6RS		1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2

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Table A-1. Card Reader Kit / Parts List (Continued)

Kit #	Item #	Item Description	Notes	Qty
14-1141		OPTION,KIT,MAG,CARD,HALF-CELL		1
	42-1168	CABLE,ASSY,POWER,MAG,CARD		1
	42-1173	CABLE,ASSY,SERIAL,MAG,CARD,586		1
	42-1209	CABLE,ASSY,SERIAL,233 REPLACES, 42-1174, CABLE, ASSY		1
	42-7093	CABLE ASSY, SERIAL, EXTENSION, MINIMAG, CARD READER, OMNIRX		1
	53-1055	PLATE,COVER,CARD,READER PRINTER		1
	71-1055	MAG,CARD,READER,IDT OTI3820-12		1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2
14-1142		OPTION,KIT,BAR,CODE,HALF-CELL		1
	53-1055	PLATE,COVER,CARD,READER PRINTER		1
	71-1041	BAR,CODE,READER,SLOT,J-IHP 000, 000, 6RS		1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2
14-1146		Mini Mag Card Kit	3 Track IDT, #OTI, 3321-33	1
	14-1110	Std PC Box Mag reader Bezel	Silk screened	1
	42-1168	Mag Card Power Cable Assy		1
	53-1057	Mini Mag Card Scratch Plate		1
	71-1073	Mini Mag Reader 3-Track	IDT,#OTI,3321-33	1
	94-6221	Screw, PH, PAN, HD, M3 x 16, SS	Machine Screw A2	2
14-1199		OPTION,KIT,MAG,CARD,3-TRK CT,PC,BOX		1
	15-1101	MFG,ASSY,MAG,CARD,3-TRK CT,PC,BOX		1
	42-1204	CABLE,ASSY,POWER,CARD,READER CT,PC,BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	65-1058	LABEL,ICON,MAG,CARD		1
	95-6007	CABLE,TIE,4,IN.		2
14-1200		OPTION,KIT,BAR,CODE,SERIAL,490CT,PC,BOX		1
	15-1102	MFG,ASSY,BAR,CODE,SERIAL,490",CT,PC,BOX		1
	42-1204	CABLE, ASSY, POWER, CARD READER CT, PC BOX		1
	42-1209	CABLE, ASSY, SERIAL, 233	Replaces 42-1174 Cable Assy	1
	65-1059	LABEL,ICON,BAR,CODE		1
	95-6007	CABLE,TIE,4 IN		2

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Table A-1. Card Reader Kit / Parts List (Continued)

Kit #	Item #	Item Description	Notes	Qty
14-1202		OPTION,KIT,BAR,CODE,SERIAL BLUE, STD, PC BOX		1
	14-1116	BEZEL,BAR,CODE,STD,PC,BOX SILKSCREENED		1
	42-1173	CABLE,ASSY,SERIAL,MAG,CARD,586		1
	42-8030	CABLE,ASSY,SERIAL,BAR,CODE,PWR		1
	42-8032	CABLE,ASSY,BAR,CODE,PC,BOX		1
	51-1005	FRAME,BEZEL,BAR,CODE,OMNI		1
	71-1110	BAR,CODE,READER,IR,SERIAL	SSLOTJ-IHS000000665	1
	94-6160	SCREW,BH,TORX,6-32,X,1/2,SS		2
14-1203		OPTION,KIT,BAR,CODE,SERIAL BLUE, PTR, PC BOX		1
	14-7010	BEZEL,BAR,CODE,RX,PC,BOX SILKSCREENED		1
	42-1173	CABLE,ASSY,SERIAL,MAG,CARD,586		1
	42-8030	CABLE,ASSY,SERIAL,BAR,CODE,PWR		1
	42-8032	CABLE,ASSY,BAR,CODE,PC,BOX		1
	51-1005	FRAME,BEZEL,BAR,CODE,OMNI,2		1
	71-1110	BAR,CODE,READER,IR,SERIAL	SSLOTJ-IHS000000665	1
	94-6160	SCREW,BH,TORX,6-32,X,1/2,SS		2
14-1206		OPTION,KIT,BAR,CODE,SERIAL OMNIRX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-8030	CABLE,ASSY,SERIAL,BAR,CODE,PWR		1
	42-8031	CABLE,ASSY,BAR,CODE,OMNIRX		1
	53-1054	ASSY,PRINTER,DOOR,CARD,READER,OMNIRX		1
	71-1110	BAR,CODE,READER,IR,SERIAL	SSLOTJ-IHS000000665	1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2
14-1207		OPTION,KIT,BAR,CODE,SERIAL HALF CELL		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-8030	CABLE,ASSY,SERIAL,BAR,CODE,PWR		1
	42-8031	CABLE,ASSY,BAR,CODE,OMNIRX		1
	53-1055	PLATE,COVER,CARD,READER PRINTER		1
	71-1110	BAR,CODE,READER,IR,SERIAL	SSLOTJ-IHS000000665	1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2
14-1209		OPTION,KIT,MAG,CARD,TRK,1 SERIAL,CT,PC,BOX		1
	15-1104	MFG, ASSY, MAG CARD,TRK, 1, 75, BPICT, PC, BOX		1
	42-1204	CABLE, ASSY, POWER, CARD, READER CT, PC, BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	65-1058	LABEL,ICON,MAG,CARD		1
	95-6007	CABLE,TIE,4 IN.		2

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Table A-1. Card Reader Kit / Parts List (Continued)

Kit #	Item #	Item Description	Notes	Qty
14-1213		OPTION,KIT,MAG,CARD,75BPI,TRK1SERIAL, ANES		1
	15-1105	MFG,ASSY,MAG,CARD,TRK,1,75,BPI ANESTHESIA		1
	42-1204	CABLE,ASSY,POWER,CARD,READER CT,PC,BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-6002	CABLE,POWER,ADAPTER,"Y",HD		1
	56-7020	BEZEL,KEYBOARD,ANESTHESIA CARD READER,FINGERPRINT,MACHINED		1
	94-6236	SCREW,TRUSS,HD,TORX,4-40,X,1/4SS		1
	95-6007	CABLE,TIE, 4 IN.		2
14-1214		OPTION,KIT,MAG,CARD,3-TRK SERIAL,ANES		1
	15-1106	MFG,ASSY,MAG,CARD,3-TRK ANESTHESIA		1
	42-1204	CABLE, ASSY, POWER, CARD, READER CT, PC, BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-6002	CABLE,POWER,ADAPTER,"Y",HD		1
	56-7020	BEZEL,KEYBOARD,ANESTHESIA CARD READER,FINGERPRINT,MACHINED		1
	94-6236	SCREW,TRUSS,HD,TORX,4-40,X,1/4SS		1
	95-6007	CABLE,TIE,4 IN.		2
14-1215		OPTION,KIT,BAR,CODE,SERIAL,490ANES		1
	15-1107	MFG,ASSY,BAR,CODE,SERIAL,490", ANESTHESIA		1
	42-1204	CABLE, ASSY, POWER, CARD, READER CT, PC, BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-6002	CABLE,POWER,ADAPTER,"Y",HD		1
	56-7020	BEZEL,KEYBOARD,ANESTHESIA CARD READER,FINGERPRINT,MACHINED		1
	94-6236	SCREW,TRUSS,HD,TORX,4-40,X,1/4SS		1
	95-6007	CABLE,TIE,4 IN.		2
14-1230		OPTION,KIT,BAR,CODE,SERIAL,400CT,PC,BOX		1
	15-1108	MFG,ASSY,BAR,CODE,SERIAL,400",CT,PC,BOX		1
	42-1204	CABLE, ASSY, POWER, CARD, READER CT, PC, BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	65-1059	LABEL,ICON,BAR,CODE		1
	95-6007	CABLE,TIE,4 IN.		2

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Table A-1. Card Reader Kit / Parts List (Continued)

Kit #	Item #	Item Description	Notes	Qty
14-1231		OPTION,KIT,BAR,CODE,SERIAL.400ANES		1
	15-1109	MFG,ASSY,BAR,CODE,SERIAL,400", ANESTHESIA		1
	42-1204	CABLE, ASSY, POWER, CARD, READER CT, PC, BOX		1
	42-1209	CABLE,ASSY,SERIAL,233	Replaces 42-1174 Cable Assy	1
	42-6002	CABLE,POWER,ADAPTER,"Y",HD		1
	56-7020	BEZEL,KEYBOARD,ANESTHESIA CARD READER,FINGERPRINT,MACHINED		1
	94-6236	SCREW,TRUSS,HD,TORX,4-40,X,1/4SS		1
	95-6007	CABLE,TIE,4 IN.		2
14-7005		OPTION,KIT,MODEL,MCR100,MAG CARD, RX, BLUE, PC, BOX		1
	14-7004	BEZEL,MAG,READER,RX,PC,BOX	SILKSCREENED	1
	42-1168	CABLE,ASSY,POWER,MAG,CARD		1
	53-1027	PLATE,SCRATCH,MAG,CARD,BEZEL MOUNT		1
	71-1055	MAG,CARD,READER,IDT OTI3820-12		1
	94-6208	SCREW,PH,PAN,HD,M3,X,5,SS		2
14-7011		Rx Bar Code Reader Kit		1
	14-7010	Rx Bar Code Bezel, PC Box	Silk Screened	1
	51-1005	Omni Bar Code Bezel Frame		2
	71-1041	Bar Code Reader Slot	J-IHP 000,000,6RS	1
	94-6160	Screw, BH, Torx 6-32 x 1/2, SS		2

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Table A-1. Card Reader Kit / Parts List (Continued)

Kit #	Item #	Item Description	Notes	Qty
14-8016		Wedge Conversion Kit	Serial Bar Code Reader	1
	20-0038	Serial Bar Code Cable Kit		1
	42-8030	Bar Code Serial Power Cable Assy		1
	80-0618	Conn, Crimp-Term, FEM	20-24 AWG, GOLD	2
	80-0619	Conn, D-SUB, Crimp, FEM,	9 POS, C-E	1
	80-0631	Conn, Crimp-Term, FEM	24-30 AWG, GOLD	2
	80-0632	Conn, HSNG, Crimp, RECEPT	2 POS, .248CC	1
	80-0754	Conn, Mod-Plug	RJ11, 4-COND, Short Body, C-E	1
	42-8031	OmniRx Bar Code Cable Assy		1
	42-8032	PC Box Bar Code Cable Assy		1
	42-1173	Mag Card Serial Cable Assy 586		1
	42-1209	Serial cable Assy 233	Replaces 42-1174 Cable Assy	1
	71-1110	Bar Code Reader IR Serial Slot	J-IHS000000665	1
	94-6036	1 Inch Cable Tie Mount		3
	94-6137	Screw, BH, Torx, 6-32 x 3/16, SS		2
	94-6160	Screw, BH, Torx, 6-32 x 1/2, SS		2
	94-6173	Screw, SHCS, 4-40 x 3/16, SS		2
	94-6208	Screw, PH, PAN, HD, M3 x 5, SS		2
	95-6007	4 Inch Cable Ties		3

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